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PROBABILITIES AND EXTREMES OF SOLAR RADIATION BY CLIMATIC WEEK

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## PROBABILITIES AND EXTREMES OF SOLAR RADIATION BY CLIMATIC WEEK

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**ABSTRACT.** Tables listing the probability, extremes and other statistics of solar radiation by climatic week are presented for 26 locations across the United States. Data used in the study were obtained from a rehabilitated solar radiation and meteorological data base called SOLMET.

### INTRODUCTION

The utilization of the sun as a source of energy for plant and animal life on earth requires knowledge of the distribution and amount of solar radiation. Solar radiation information is in demand for the design of heating and cooling systems for homes, livestock structures, greenhouses and other buildings. Many evapotranspiration calculations, heat budget studies and plant growth models also require solar radiation data. Solar energy is being used in drying crops.

Reliable solar radiation data with comparative meteorological data has not been available in a convenient form for researchers. National summaries of solar radiation include those by Fritz and McDonald (1949), Atlas and Charles (1964) and Bennett (1967). Numerous regional and local studies have been done (Baker and Haines, 1969; Baker and Klink, 1975; Rosenberg, 1964; Sakamoto and Dunlap, 1974). Extensive quality control of the data has been required before the data could be analyzed. Different adjustment procedures for rehabilitating the data in each study make comparisons difficult.

This paper reports on an analysis of solar radiation at 26 locations in the United States utilizing a new combined solar radiation and meteorological data base named SOLMET. Tables of solar radiation extremes, means, standard of the mean and probability distribution are presented. (See pages 10-35.)

#### SOURCE OF DATA

The National Climatic Center (NCC) is responsible for archiving all meteorological and solar radiation data. NCC Tape Data Family-14 has been used to record all hourly meteorological data with Card Deck 280 used for hourly insolation data. These two data sources suffered from a lack of quality control, instrument changes and calibration problems. Several changes in the international scale for radiation measurements (solar constant) required adjustments to all solar data. The need for a common solar radiation and meteorological data base resulted in the creation of the SOLMET data format by the NCC.

SOLMET provides quality controlled hourly solar radiation and meteorological data for 27 stations previously archived in the Card Deck 280 and Tape Data Family-14 systems. All future solar and meteorological data will be recorded in the SOLMET format.

The important features of SOLMET are:

1. Insolation and meteorological data are combined into one source.
2. All data are in the International System of Units (SI).
3. Observations are recorded in true solar and local standard time.

4. The format allows for the recording of additional solar radiation parameters as they become available.
5. The data is FORTRAN compatible.
6. Where possible, missing observations are estimated via models.
7. Global solar radiation data is serially complete and corrected for all known scale, instrument and calibration problems.

Further information on SOLMET is available in Volume I of the SOLMET User's Manual (1977).

Table I lists 26 of the 27 stations recorded in the SOLMET format. Stephenville, TX is not included since only two years of data are available. The 26 SOLMET stations are shown in figure 1. Most of the data covers the period 1 July 1952 through 31 Dec 1975.

#### METHOD OF COMPUTATION

The SOLMET data was available on a set of 27 magnetic tapes suitable for computer processing. Analysis of the data was made on the Auburn University IBM 370/158. The computer programs used were based on a similar analysis by Baker and Klink (1975). All data are summarized by climatic week. Climatic weeks were used to allow comparisons with other climatological studies (which are typically based on climatic weeks) and to account for short-term variations of solar radiation. Data at the beginning and end of the period of record for each station was not included if it was not within a complete climatic week. For the purpose of this study, February 28 and 29 (climatic week 53), were omitted.

Hourly insolation data from SOLMET tape field 108 were summed into daily totals. The daily values were also totalized into weekly sums by climatic week. The analysis of solar radiation for the 26 SOLMET stations consisted of calculations of the extremes, mean, standard of the mean and probability distribution. Tables 2 through 27 list the results of the calculations. All data are presented in Kilojoules per square meter per day (standard units for solar radiation data). The calculations are detailed below.

#### Extremes, Mean and Standard of the Mean

The maximum and minimum daily solar radiation values were found for each climatic week. A mean daily amount of solar radiation was calculated by averaging the weekly total radiation for each climatic week over all years. The standard of the mean (or standard deviation) was determined in the usual manner.

#### Probabilities

The probability of receiving at least an indicated amount of insolation was calculated at 10 percent increments from 10 to 90 percent. The probabilities were determined empirically using a computer technique after Baker and Klink (1975).

#### INTERPRETATION AND USE OF THE DATA

The data presented in this study was not quality controlled but was accepted as recorded in the SOLMET tapes. It should be noted that unrealistic minimum radiation values appear in the tables for some stations. Examination of a similar analysis by Baker and Klink (1975)

using a different data base showed the same problem. The source of this error is not clear. No attempt was made to adjust for these questionable values. Since the unusually low values were normally only one out of several hundred observations, the effects on the data should not be great.

Users of the data are also cautioned that direct interpolation of values for locations between SOLMET station locations should not be done due to the sparse geographical distribution of the SOLMET stations.

At the top of each table is the station name, WBAN station number and period of record. Column one lists the climatic week. The number of daily observations used in the calculations for that climatic week are listed in the next column. Next, are the greatest and least amount of daily radiation observed over all years of record during the climatic week. Column five shows the average daily solar radiation for that climatic week. The variability of the data from the mean is listed in column six as the standard of the mean or standard deviation.

The remainder of the table provides information on the distribution of daily radiation values for each climatic week. Using table 2 as an example, the probability is 90% that Albuquerque, NM will receive at least 11,345 KJ/M<sup>2</sup> per day of global radiation during the first week of March. The median radiation for the first climatic week at Albuquerque is 19,868 KJ/M<sup>2</sup> per day. Half of the daily radiation values are greater than this figure and half are less than the above amount.

There are a number of specific uses for the data presented in tables 2 through 27. A primary use is that of providing a simple climatology of radiation. Evapotranspiration estimates using solar radiation data can be made from SOLMET data using formula such as those given by Baier and Robertson (1965). The SOLMET global radiation values can be used in a technique described by Barfield et al. (1973) to estimate the amount of solar radiation received on a sloping surface for all combinations of slope orientation and inclination. Anderson (1976) lists a method of determining the size and efficiency of a solar collector based on expected insolation and other variables.

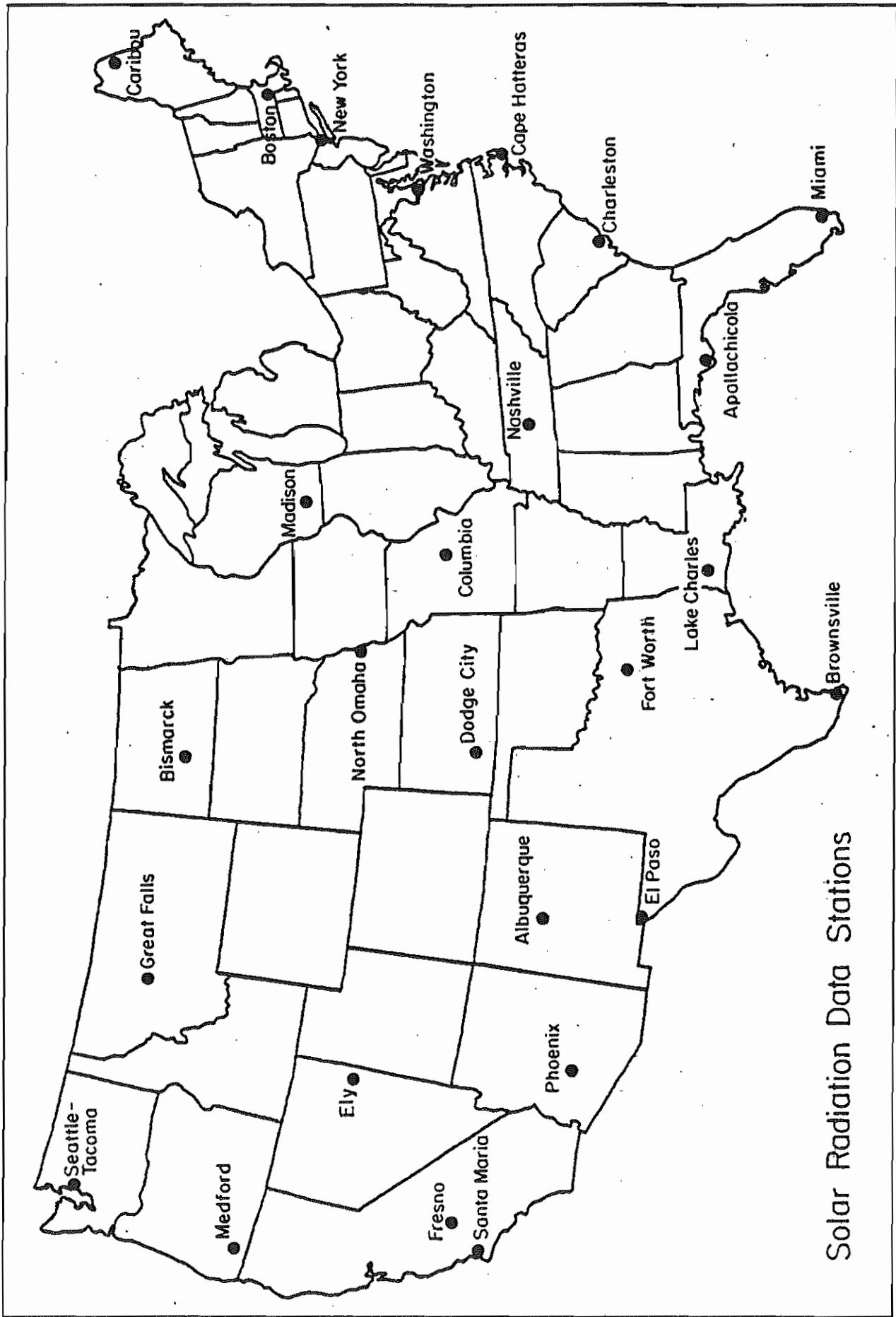
#### ACKNOWLEDGEMENT

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## Solar Radiation Data Stations



Figur

<u>STATION NUMBER</u>	<u>STATION NAME</u>	T A B L E 1.	<u>ELEVATION* (METERS)</u>	<u>PERIOD OF RECORD</u>	<u>LATITUDE**</u>	<u>LONGITUDE**</u>
23050	Albuquerque, NM		1627	7/1/52-12/31/75	N35 03	W106 37
12832	Apalachicola, FL		8	7/1/52-12/31/75	N29 44	W85 02
24011	Bismark, ND		506	7/1/52-12/31/75	N46 46	W100 45
94701	Boston, MA		48	7/1/52-11/30/68	N42 22	W71 03
12919	Brownsville, TX		15	7/1/52-12/31/75	N25 54	W97 26
93729	Cape Hatteras, NC		6	7/1/52-12/31/75	N35 16	W75 33
14607	Caribou, ME		195	7/1/52-12/31/75	N46 52	W68 01
13880	Charleston, SC		21	7/1/52-12/31/75	N32 54	W80 02
03945	Columbia, MO		277	7/1/52-12/31/75	N38 49	W92 13
13985	Dodge City, KS		800	7/1/52-12/31/75	N37 46	W99 58
23044	El Paso, TX		1205	7/1/52-12/31/75	N37 48	W106 24
23154	Ely, NV		1914	12/1/51-12/31/75	N39 17	W114 51
13927	Ft. Worth, TX		175	7/1/52-7/31/74	N32 50	W97 03
93193	Fresno, CA		102	7/1/52-12/31/75	N36 46	W119 43
24143	Great Falls, MT		1125	7/1/52-12/31/75	N47 29	W111 22
03937	Lake Charles, LA		18	7/1/52-12/31/75	N30 07	W93 13
14837	Madison, WI		271	7/1/52-12/31/75	N43 08	W89 20
24225	Medford, OR		405	12/1/51-12/31/75	N42 22	W122 52
12839	Miami, FL		12	7/1/52-12/31/75	N25 48	W80 16
13897	Nashville, TN		186	7/1/52-12/31/75	N36 07	W86 41
94728	New York, NY		57	7/1/52-12/31/75	N40 47	W73 58
94918	N. Omaha, NE		404	6/1/57-12/31/75	N41 22	W96 01
23183	Phoenix, AZ		347	7/1/52-12/31/75	N33 26	W112 01
23273	Santa Maria, CA		82	7/1/52-3/31/69	N34 54	W120 87
24233	Seattle-Tacoma, WA		137	12/1/51-12/31/75	N47 27	W122 18
93734	Washington, DC		86	8/1/53-12/31/75	N38 59	W77 28

\*most recent height of solar radiation instrument.

\*\*most recent location of solar radiation instrument.

SOLAR RADIATION IN KILOJODULES PER SQUARE METER PER DAY BY CLIMATIC WEEK  
 (STATION NO. 230501) JUL, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER DAYS	MINIMUM RADIALION			MAXIMUM RADIALION			MEAN RADIALION			STD OF MEAN			RECEIVING AT LEAST THE INDICATED AMOUNT					
		20	40	60	20	40	60	20	40	50	(MEDIAN)	20	30	40	50	60	70	80	
03/01 - 03/07	161	5999	22911	18196	323	11345	14474	17499	18688	19868	20485	20973	21348	21644	21844	22158	22608	23011	
03/08 - 03/14	161	3813	25019	18976	361	11336	15525	18014	19356	20476	21212	21212	21212	21212	21212	21212	21212	21212	
03/15 - 03/21	161	4371	26387	20609	365	13191	16614	19735	21502	22442	22442	22442	22442	22442	22442	22442	22442	22442	
03/22 - 03/28	161	5421	27387	21499	395	13228	17154	20531	22021	23382	23382	23382	23382	23382	23382	23382	23382	23382	
03/29 - 04/04	161	5837	28040	22767	377	15946	18532	20982	23174	24608	25682	26191	26554	26950	27547	27547	27547	27547	
04/05 - 04/11	161	7786	29586	23934	373	16777	19836	22331	23793	25462	26993	27289	27734	28127	28127	28127	28127	28127	
04/12 - 04/18	161	5116	30043	21511	394	17238	23815	25608	27129	27903	28644	29103	29402	29402	29402	29402	29402	29402	
04/19 - 04/25	161	5050	31578	26646	390	19360	23521	25673	28114	28851	29454	29786	30002	30397	30397	30397	30397	30397	
04/26 - 05/02	161	8939	32351	27285	389	18399	24576	26336	28304	29420	29927	30465	31001	31384	31384	31384	31384	31384	
05/03 - 05/09	161	6362	33516	28133	425	20950	24806	27604	29389	30235	30779	31285	31845	32332	32332	32332	32332	32332	
05/10 - 05/16	161	6517	33893	29031	356	22950	25767	27950	29480	30526	31257	31898	32368	32926	32926	32926	32926	32926	
05/17 - 05/23	161	16723	34568	29250	333	22449	25951	28110	29625	30746	31649	32029	32575	33012	33012	33012	33012	33012	
05/24 - 05/30	161	12208	36076	29259	374	23049	25691	27388	29012	30635	31582	3224	32973	3390	3390	3390	3390	3390	
05/31 - 06/06	161	14554	34634	29482	360	25612	27317	29826	31198	31891	32615	33242	33872	34210	34210	34210	34210	34210	
06/07 - 06/13	161	9580	35480	29892	404	22861	26127	28441	30797	32726	33288	33718	34210	34210	34210	34210	34210	34210	
06/14 - 06/20	161	13218	35931	30593	311	25556	28047	29842	31704	32470	33094	33595	33947	34210	34210	34210	34210	34210	
06/21 - 06/27	161	9966	35368	31323	282	26201	30021	31241	31828	32296	32816	33191	33686	33982	34210	34210	34210	34210	
06/28 - 07/04	161	13556	34656	30059	293	2450	26906	28997	30127	31286	32042	32480	32891	33499	33499	33499	33499	33499	
07/05 - 07/11	168	8548	37373	28389	387	21204	24099	26534	28616	29914	31049	31657	32301	33201	33201	33201	33201	33201	
07/12 - 07/18	168	6853	33894	28080	334	22014	24994	27044	27926	29067	30042	30776	31432	32393	32393	32393	32393	32393	
07/19 - 07/25	168	17142	33410	28018	292	22631	24816	25999	27754	28975	29945	30667	31139	32060	32060	32060	32060	32060	
07/26 - 08/01	168	8815	34391	27302	314	21511	24717	26382	27441	28368	28855	29720	30439	31094	31094	31094	31094	31094	
08/02 - 08/08	168	9319	32089	27354	307	21759	24597	25917	27614	2848	29353	29912	30585	30991	30991	30991	30991	30991	
08/09 - 08/15	168	9021	31494	26059	301	21195	22966	24835	26244	27257	28006	28606	29112	29797	29797	29797	29797	29797	
08/16 - 08/22	168	8478	29786	25616	277	20800	22858	24525	25700	26823	27360	27807	28427	29027	29027	29027	29027	29027	
08/23 - 08/29	168	4824	29716	25314	319	18821	22966	24576	26152	27926	29067	30042	30776	31432	32393	32393	32393	32393	
08/30 - 09/05	168	6874	28628	24444	303	18453	22196	23721	24760	26028	26619	26951	27266	27679	28589	28589	28589	28589	
09/06 - 09/12	168	9863	27450	23033	307	16695	19701	21584	23885	24803	25442	25808	26061	26420	26420	26420	26420	26420	
09/13 - 09/19	168	6288	26851	22391	331	17189	20483	22137	23104	24091	24558	24945	25181	25490	25490	25490	25490	25490	
09/20 - 09/26	168	3428	25358	21012	370	12967	19075	21603	22502	23672	23905	24195	24495	24797	24797	24797	24797	24797	
09/27 - 10/03	168	4262	20466	288	14220	18967	20552	21581	21983	22268	22744	22942	23239	23537	23537	23537	23537	23537	
10/04 - 10/10	168	4115	22084	19146	290	14181	17926	19076	20413	20811	20984	21148	21381	21586	21586	21586	21586	21586	
10/11 - 10/17	168	3010	21010	18089	309	14247	17038	18953	19455	19863	20064	20309	20568	20864	20864	20864	20864	20864	
10/18 - 10/24	168	3837	19759	16756	246	12167	14598	16313	17801	18175	18394	18652	18924	19200	19200	19200	19200	19200	
10/25 - 10/31	168	2317	18635	15335	282	9438	12951	15466	16586	16897	17247	17505	17788	17971	17971	17971	17971	17971	
11/01 - 11/07	168	2878	17300	14447	234	9258	12803	14336	15282	15789	16037	16267	16454	16762	16762	16762	16762	16762	
11/08 - 11/14	168	13590	2954	16169	213	9058	11825	13501	14216	14763	15025	15241	15480	15740	15740	15740	15740	15740	
11/15 - 11/21	168	2586	15840	12059	250	6345	9300	11505	12789	13676	13955	14214	14417	14657	14657	14657	14657	14657	
11/22 - 11/28	168	14367	11779	11779	234	6540	9923	11751	12813	13256	13452	13582	13697	13881	13881	13881	13881	13881	
11/29 - 12/05	168	2127	13913	10687	233	5923	8174	9438	1072	11412	12221	12609	12783	12915	13088	13088	13088	13088	
12/06 - 12/12	168	2334	15207	10864	198	6306	9033	10821	11577	12056	12282	12465	12750	13272	13443	13443	13443	13443	
12/13 - 12/19	168	2675	12989	10447	213	5235	10671	11366	11883	12028	12168	12441	12750	13272	13443	13443	13443	13443	
12/20 - 12/26	168	1874	12572	10542	183	6546	8749	10300	11020	11513	11927	12130	12237	12393	12393	12393	12393	12393	
12/27 - 01/03	161	472	12913	10259	209	5855	7422	9438	10740	11679	11965	12114	12223	12417	12417	12417	12417	12417	
01/03 - 01/09	161	2120	13670	10747	216	5801	9094	10725	11529	12010	12211	12609	12783	12915	13088	13088	13088	13088	
01/10 - 01/16	161	1690	13904	11478	206	5921	9170	11073	12310	12675	12863	13054	13272	13443	13443	13443	13443	13443	
01/17 - 01/23	161	3212	14950	11622	235	6081	9459	10982	12302	12789	13276	13574	13880	14128	14128	14128	14128	14128	
01/24 - 01/30	161	2976	15724	12548	1874	6488	10256	11913	13031	14196	14469	14662	14913	15172	15172	15172	15172	15172	
01/31 - 02/06	161	2997	17282	13614	261	7746	11468	13067	14143	15204	15575	15795	16063	16233	16233	16233	16233	16233	
02/07 - 02/13	161	4169	18788	14305	288	9201	11124	13628	14712	15758	16499	16849	17017	17427	17427	17427	17427	17427	
02/14 - 02/20	161	3074	22365	15460	304	9194	12346	14266	15712	17611	17961	18263	18604	19082	19082	19082	19082	19082	
02/21 - 02/27	161	3301	16734	13348	330	9436	13287	16046	17607	18475	19187	19508	19824	20252	20252	20252	20252	20252	

Table 2.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT APALACHICOLA, FL.  
 (STATION NO. 12632) JUL, 1972 - DEC, 1975

CLIMATIC WEEK	NUMBER DAYS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	RECEIVING AT LEAST THE INDICATED AMOUNT					
						90	80	70	60	50	40
03/01 - 03/07	161	1501	22240	14592	448	5953	8035	11000	14038	15889	17617
03/08 - 03/14	161	2053	23682	16262	446	6663	10769	13482	16124	18079	20011
03/15 - 03/21	161	1024	24212	17158	513	6398	9573	14337	14337	15784	20210
03/22 - 03/28	161	1033	24944	18481	462	14336	16802	18819	20242	21821	23066
03/29 - 04/04	161	1111	25659	18669	575	4888	10968	16435	19900	21481	23333
04/05 - 04/11	161	2076	26953	19733	518	8805	13380	17766	20601	22440	23089
04/12 - 04/18	161	4141	27772	21652	464	12365	16816	20393	22761	24719	25073
04/19 - 04/25	161	3002	28599	23012	428	14805	20329	22979	24338	25368	26072
04/26 - 05/02	161	2013	28887	22366	478	11882	17375	21366	23800	24858	26565
05/03 - 05/09	161	2390	29093	22742	488	11615	18515	21679	23644	25048	26364
05/10 - 05/16	161	2723	29674	23955	453	15278	21173	22745	25199	27003	27305
05/17 - 05/23	161	3709	29777	24250	425	16813	22121	23960	25499	26114	27031
05/24 - 05/30	161	7806	29158	24077	381	16713	20900	23104	24671	25854	26843
05/31 - 06/06	161	8219	29785	24530	361	17809	20685	23865	25227	26187	26981
06/07 - 06/13	161	5215	29392	22861	463	13085	18174	21501	23609	25041	26364
06/14 - 06/20	161	3235	29828	21891	472	12524	17292	18948	21522	23492	24742
06/21 - 06/27	161	3313	29031	21175	465	11960	16346	19511	21086	22815	24175
06/28 - 07/04	161	7691	28844	22964	375	16116	19396	21825	23450	25883	26639
07/05 - 07/11	168	5367	29798	20917	437	11990	16028	18290	20411	22240	23438
07/12 - 07/18	168	1337	27959	20320	452	11932	15227	17430	19294	21411	23272
07/19 - 07/25	168	3525	28170	20346	447	11328	14986	18121	19896	21194	22533
07/26 - 08/01	168	1274	28297	19511	473	11236	14478	16593	17930	20508	21839
08/02 - 08/08	168	1826	27366	19293	469	9904	13916	17456	19275	20859	22309
08/09 - 08/15	168	4128	27288	18816	469	9636	12731	15344	17892	20499	22479
08/16 - 08/22	168	3074	25853	19461	378	12336	14822	17183	19583	20874	22437
08/23 - 08/29	168	3652	25855	19181	411	11653	13656	16968	18533	20469	22685
08/30 - 09/05	168	3006	25591	19171	378	11191	15643	17186	19010	20850	22608
09/06 - 09/12	168	565	24690	17096	451	7331	12095	14764	17312	19163	20349
09/13 - 09/19	168	542	23526	17611	393	10360	13852	16007	17738	19348	21252
09/20 - 09/26	168	534	22926	17051	418	8328	12355	16315	18145	19143	21946
09/27 - 10/03	168	2115	21327	16512	388	7821	12682	16103	17278	18490	20468
10/04 - 10/10	168	824	21691	16380	371	84645	13028	16172	17414	18483	19017
10/11 - 10/17	168	1860	20615	15970	322	9184	12392	16069	16970	17577	18314
10/18 - 10/24	169	538	19519	14987	333	6956	12470	15041	15917	16947	17394
10/25 - 10/31	168	2556	17732	14190	313	6714	12181	14390	15270	16104	16334
11/01 - 11/07	163	1018	16884	13327	290	7316	10246	12918	14350	15057	15410
11/08 - 11/14	168	16351	11897	11897	305	5805	7853	10334	12791	14661	15078
11/15 - 11/21	163	2377	15579	11854	229	7085	9337	10865	12090	12886	13635
11/22 - 11/28	168	1415	15425	10463	276	3735	7601	9404	10746	11716	12154
11/29 - 12/05	168	193	14602	10389	279	4036	6940	9871	11474	12203	12549
12/06 - 12/12	168	197	13506	9378	262	4151	5895	7912	9064	10454	11215
12/13 - 12/19	168	832	13709	9158	251	4310	55794	7230	9159	10013	10966
12/20 - 12/26	168	856	12845	8973	257	3530	5764	7313	8695	10032	10771
12/27 - 01/02	161	1140	17262	10956	357	3325	5052	6657	7841	9118	10271
01/03 - 01/09	161	209	13714	8983	285	3118	5228	6779	794	10891	11956
01/10 - 01/16	161	402	13902	9212	298	3796	5259	6846	8506	9618	11312
01/17 - 01/23	161	710	14712	9617	322	3463	5188	6887	8291	10230	12454
01/24 - 01/30	161	633	15798	11016	318	4763	7154	8920	10161	11854	12283
01/31 - 02/06	161	1140	17262	10956	357	6166	8535	10271	11679	12270	13411
02/07 - 02/13	161	1003	18087	12792	371	5457	7736	10978	12643	14621	15266
02/14 - 02/20	161	2017	19689	13304	368	5980	8982	11062	12682	14953	15811
02/21 - 02/27	161	437	20686	13838	424	5818	8216	10520	13464	15220	17053

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT BISMARCK, ND.  
(STATION NO. 24011) JUL, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER QBS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						20	30	40	50	60	70
03/01 - 03/07	161	2019	16310	11434	280	5375	8053	9972	11356	12480	13180
03/08 - 03/14	161	1333	18440	12109	334	5737	8066	10121	11209	12472	13768
03/15 - 03/21	161	1498	20773	14041	351	7422	10431	11645	13440	14860	16577
03/22 - 03/28	161	2465	21289	13935	441	5531	7316	10421	13013	15219	17353
03/29 - 04/04	161	1768	23180	15671	479	5857	9841	12698	15031	17757	19415
04/05 - 04/11	161	1448	24699	16111	540	5043	8750	12023	15404	18598	20285
04/12 - 04/18	161	2471	26004	17484	566	5738	9471	14262	16338	19899	21842
04/19 - 04/25	161	1725	27653	17182	561	6545	10051	13229	15515	18378	20694
04/26 - 05/02	161	1003	28460	17359	657	3932	9425	12640	15441	19105	21481
05/03 - 05/09	161	1389	29941	20384	597	8179	12382	16923	21417	22998	24005
05/10 - 05/16	161	2031	31086	20936	654	7803	10732	14010	17221	20968	24000
05/17 - 05/23	161	1518	30555	21299	612	8984	14674	19011	21584	23575	25232
05/24 - 05/30	161	2033	31347	21490	663	8176	11477	18486	21574	24229	26383
05/31 - 06/06	161	3990	32406	23565	575	12110	16261	21197	23584	25818	27628
06/07 - 06/13	161	2785	31809	21552	692	7281	11349	15784	21397	27045	29481
06/14 - 06/20	161	3175	32984	23107	603	10732	15598	20180	22793	24861	26961
06/21 - 06/27	161	4003	31424	24212	555	14191	17775	22536	23986	27038	28314
06/28 - 07/04	161	5061	32604	24517	554	12561	18200	22232	25536	27570	28465
07/05 - 07/11	168	4366	31985	25660	430	16796	21371	26581	27713	28173	29766
07/12 - 07/18	168	4676	31983	25476	380	18411	21545	24521	26081	27133	28090
07/19 - 07/25	168	4644	30163	24608	426	16510	20939	24172	25205	26711	27564
07/26 - 08/01	168	3893	23850	2425	425	8325	20478	22550	24308	26009	26794
08/02 - 08/08	168	2790	29156	22493	439	13929	17411	19430	22494	24911	26119
08/09 - 08/15	168	3888	27505	22865	386	16730	20921	22888	23857	24754	27713
08/16 - 08/22	168	3314	26372	20660	436	10001	16933	19453	21819	22955	23800
08/23 - 08/29	168	2654	26297	19724	419	10571	14786	18673	21863	22786	23474
08/30 - 09/05	168	2230	24076	17701	439	8325	12863	15211	17453	19848	21409
09/06 - 09/12	168	1995	22471	17199	382	9029	13251	15511	17572	18976	20786
09/13 - 09/19	168	1466	21718	14718	421	5723	9724	12501	14142	16212	18088
09/20 - 09/26	168	1504	19514	13772	399	5242	8144	10805	14412	16184	17718
09/27 - 10/03	168	2005	17981	13593	314	7169	10422	12306	13951	15329	15962
10/04 - 10/10	168	838	16492	11505	342	4159	6639	9419	11787	13318	14345
10/11 - 10/17	168	642	15062	10602	293	4424	8694	10644	12474	12884	13384
10/18 - 10/24	168	954	13452	9650	259	4082	5817	8201	10013	11660	12157
10/25 - 10/31	168	988	12457	7861	243	3007	4693	5585	7094	8685	9434
11/01 - 11/07	168	767	10809	6995	221	2529	3979	5215	6708	7676	8793
11/08 - 11/14	168	487	9920	6169	191	2393	3676	4763	53229	6538	7262
11/15 - 11/21	168	764	6410	5189	179	1788	2931	3506	41305	5183	6183
11/22 - 11/28	168	689	8058	4999	145	2439	3123	3656	4413	5076	5754
11/29 - 12/05	161	378	7704	4570	136	1845	2662	3505	4456	4819	5239
12/06 - 12/12	168	636	8406	4358	126	2216	2642	3438	4014	4652	5224
12/13 - 12/19	168	1325	7083	4202	111	2216	2677	3117	3730	4298	4877
12/20 - 12/26	168	764	6410	3881	113	1759	2374	2933	3485	3916	4496
12/27 - 01/02	161	1158	7112	4408	117	2051	2730	3583	4354	4709	5190
01/03 - 01/09	161	655	6824	4650	113	2364	3416	4029	4542	4914	5358
01/10 - 01/16	161	1474	7374	4930	122	2449	3387	4023	4513	5740	6127
01/17 - 01/23	161	1224	8054	5335	141	2581	3475	4418	4896	5338	6119
01/24 - 01/30	161	1787	9020	6257	143	3690	4505	5361	6024	6589	6971
01/31 - 02/06	161	1831	11242	7166	157	4086	5119	6352	6884	7395	7985
02/07 - 02/13	161	1729	12201	7845	196	4200	5361	6600	7738	8451	9037
02/14 - 02/20	161	3105	13280	9140	223	4785	5997	7154	8580	9881	10796
02/21 - 02/27	161	14205	10337	235	854	7555	9154	10295	11104	11874	12442

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT BOSTON, MASS.  
 (STATION NO. 94701)  
 JUL, 1952 - NOV, 1963

CLIMATIC WEEK	NUMBER OBS	MINIMUM RADIATION			MAXIMUM RADIATION			STD OF MEAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT				
		20	10	50	50	40	30		20	10	50	40	30
03/01 - 03/07	112	840	16905	9229	485	2109	3431	7317	9797	13727	14502	15350	16579
03/08 - 03/14	112	632	18521	10500	519	2254	4167	6237	9682	11271	13012	15013	16103
03/15 - 03/21	112	1135	20497	11950	567	2938	5008	10162	13096	15700	16968	18011	18225
03/22 - 03/28	112	650	20914	13682	592	3575	5982	10042	13616	16175	17760	18417	19159
03/29 - 04/04	112	1173	23305	13743	670	3363	4939	7243	12706	15397	18010	19674	20557
04/05 - 04/11	112	893	24310	14493	686	3627	6652	10711	12772	14888	19235	20937	21930
04/12 - 04/18	112	1251	24610	15287	687	3430	11231	14930	17083	18404	20867	22406	23496
04/19 - 04/25	112	928	25593	15606	746	3887	5677	9561	13534	18059	21685	22389	23115
04/26 - 05/02	112	1204	28664	16091	842	3239	4846	7887	14731	19076	21367	23680	25020
05/03 - 05/09	112	1361	29366	17599	792	4760	8357	11977	15335	18736	21757	24651	26023
05/10 - 05/16	112	1655	29306	18288	779	4781	9080	13959	17586	20451	22446	24915	26030
05/17 - 05/23	112	2003	30960	19454	685	687	11897	17360	19189	20805	21414	24647	25813
05/24 - 05/30	112	1992	31400	20268	733	7168	13506	17539	19843	21945	23520	25896	27471
05/31 - 06/06	112	2915	30727	20867	748	7181	11968	16769	21110	23219	25388	27004	28846
06/07 - 06/13	112	2190	32923	19286	810	5913	9670	13848	17747	20891	23520	26196	27233
06/14 - 06/20	112	1631	30945	21408	788	5222	16489	18880	21985	24064	27233	28334	29194
06/21 - 06/27	112	3979	31324	20521	736	7113	12223	16055	19594	22355	24813	26390	27771
06/28 - 07/04	112	3635	31069	22055	607	10577	17625	21678	22702	23732	25030	25716	26922
07/05 - 07/11	119	3547	30520	20658	610	10334	15940	18102	20089	21850	23535	25152	26626
07/12 - 07/18	119	1927	28984	19217	662	8055	10899	15845	18402	20969	23210	24388	26943
07/19 - 07/25	119	2498	33220	18642	603	8001	12175	15104	17438	20062	21262	22622	24671
07/26 - 08/01	119	2878	30392	19678	569	10402	13833	17597	19999	21332	22769	23764	24552
08/02 - 08/08	119	2490	26093	17705	581	7548	11768	14367	18013	19337	20548	22397	23252
08/09 - 08/15	119	2340	25820	16520	585	5734	10670	13896	15959	17924	19515	20932	21984
08/16 - 08/22	119	290	24850	16999	556	6603	12082	14153	16710	18753	20087	21816	23510
08/23 - 08/29	119	2157	24804	16413	577	4836	10334	14699	16220	18337	19502	20739	21875
08/30 - 09/05	119	1198	23540	15755	529	6849	9662	12728	14549	16972	19247	20345	21856
09/06 - 09/12	119	786	22667	15692	540	5874	9690	13285	16248	17855	19125	20296	20731
09/13 - 09/19	119	1037	22264	13812	545	3946	7466	11045	13238	15780	17063	18055	19329
09/20 - 09/26	119	659	19802	13236	487	4392	6843	10913	13431	15000	15933	17080	18000
09/27 - 10/03	119	640	19470	12305	491	2320	6176	10849	12424	14245	15387	16428	17384
10/04 - 10/10	119	614	17546	10990	488	2435	4492	7693	11360	12854	14247	15283	16943
10/11 - 10/17	119	373	17672	11157	382	4028	7305	9886	11311	12577	13359	13948	14544
10/18 - 10/24	119	691	16354	9158	398	1884	3485	7403	9056	10383	11502	12367	12879
10/25 - 10/31	119	730	13236	7927	357	1688	3328	4796	7504	9473	10292	11238	12710
11/01 - 11/07	119	287	12078	6525	334	1097	2109	3578	5823	6999	8245	9327	10204
11/08 - 11/14	119	477	10427	6024	283	1392	2666	3827	5043	6361	7736	8363	9242
11/15 - 11/21	119	197	7720	4582	216	1581	2299	3079	4481	5680	7087	8027	8429
11/22 - 11/28	119	219	8829	4974	246	1116	1992	2643	3980	5678	6452	7229	7739
11/29 - 12/05	119	149	7928	4771	228	1198	1797	3306	4133	5203	6223	6660	7164
12/06 - 12/12	112	475	8191	5076	233	979	2113	3401	4958	6003	6365	7001	7457
12/13 - 12/19	112	100	7557	4076	218	940	1413	2035	3295	4360	5208	5753	6460
12/20 - 12/26	112	200	7613	4613	208	1240	2038	2848	4404	5139	5926	6737	7193
12/27 - 01/02	112	197	7720	4582	216	1086	1692	2848	4268	5369	5891	6334	6765
01/03 - 01/09	112	552	10101	4731	214	1456	1884	2994	4375	5459	6081	6610	6984
01/10 - 01/16	112	95	9343	5133	279	1018	1829	2230	3295	4155	5309	6309	7986
01/17 - 01/23	112	211	9273	5764	250	1733	2622	3763	5223	6526	7548	7887	8490
01/24 - 01/30	112	159	10152	5812	299	1274	2323	3204	5106	6406	7435	8525	8989
01/31 - 02/06	112	866	11273	6792	294	2226	3591	4528	5864	7501	8490	9422	10329
02/07 - 02/13	112	567	13736	7344	350	1534	2986	4644	6287	7858	9364	10546	11561
02/14 - 02/20	112	353	14337	8622	392	1762	3462	6803	8375	10154	11083	11702	12125
02/21 - 02/27	112	944	15408	9357	417	1831	4159	7490	9322	10499	11948	12740	13359

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT BROWNSVILLE, TX.  
 (STATION NO. 12919) JUL, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER OBS.	MINIMUM RADIALION	MAXIMUM RADIALION	MEAN RADIALION	STD OF RADIALION	RECEIVING AT LEAST THE INDICATED AMOUNT						
						90	80	70	60	50	40	
03/01 - 03/07	161	1934	23122	15484	464	6346	9549	13353	14750	16055	18111	19649
03/08 - 03/14	161	2240	24903	15939	484	7371	10041	12423	14995	16902	18417	20551
03/15 - 03/21	161	2352	25486	16912	498	7966	10227	12931	15275	18456	20455	21584
03/22 - 03/28	161	2333	26797	17319	534	7823	10172	13086	15353	18532	21196	22568
03/29 - 04/04	161	3568	27122	18583	512	8242	13061	14943	17722	19614	21780	23571
04/05 - 04/11	161	2910	27480	19302	519	9074	13413	16013	18661	21093	23076	23924
04/12 - 04/18	161	3197	29887	19184	514	9939	12867	14757	18338	20252	24426	25421
04/19 - 04/25	161	3786	30670	20900	450	11993	15591	18582	20386	22031	23729	24933
04/26 - 05/02	161	3202	28759	19131	498	8587	13760	17053	18580	19525	21178	23620
05/03 - 05/09	161	3245	32841	20843	514	11016	14503	18218	19988	21537	23481	25262
05/10 - 05/16	161	4986	29131	21373	433	13448	16682	19334	21416	22398	23600	25125
05/17 - 05/23	161	4682	30298	22641	410	15241	18155	20389	22569	23728	25065	26427
05/24 - 05/30	161	31581	23438	386	15569	19262	22370	23466	25232	25875	26641	27094
05/31 - 06/06	161	5863	21697	24504	358	18341	21458	23234	24884	25703	26461	27109
06/07 - 06/13	161	5835	31639	24524	373	18648	21870	23599	24819	25676	26528	27870
06/14 - 06/20	161	6589	31355	23466	444	14277	19822	22227	24141	24844	25887	26946
06/21 - 06/27	161	4566	31325	23106	481	12920	19365	21429	23478	25480	26235	27107
06/28 - 07/04	161	5765	31213	25047	301	20180	22999	24404	25126	25827	26422	27178
07/05 - 07/11	161	5797	31195	25336	323	19701	22363	24808	25596	26427	27178	27738
07/12 - 07/18	168	4875	30008	24272	385	17105	22603	24358	25193	25811	26479	27109
07/19 - 07/25	168	6897	29783	25726	235	22971	24314	25552	26031	26367	26693	27196
07/26 - 08/01	168	11199	28780	25013	275	19665	23837	24736	25526	26058	26585	27758
08/02 - 08/08	168	6848	30223	23910	332	17059	20671	23319	24474	25287	25827	26350
08/09 - 08/15	168	6408	28970	24059	315	19203	22569	25387	26997	27527	28186	28419
08/16 - 08/22	168	7192	28807	23177	320	16392	23200	24808	25193	25811	26479	27109
08/23 - 08/29	168	7924	27746	21121	392	11912	16935	19725	21601	22627	23757	24624
08/30 - 09/05	168	4328	27875	20932	376	13489	17390	19516	21213	22358	23274	24109
09/06 - 09/12	168	4683	28363	19091	404	10568	14867	16951	18554	20575	21558	22659
09/13 - 09/19	168	2889	19196	19196	371	11432	15829	18199	19612	20774	21430	22141
09/20 - 09/26	168	6659	26955	18767	339	12211	15476	17400	18408	20111	20829	21319
09/27 - 10/03	168	2881	24692	18069	406	9881	14184	17445	18724	19834	20633	21469
10/04 - 10/10	168	2013	23053	17750	370	9986	13407	16907	18441	19290	20257	21101
10/11 - 10/17	168	2937	22171	16299	356	8616	13396	15144	16650	17510	18121	19259
10/18 - 10/24	168	3038	21085	16036	318	9756	12180	14611	16342	17379	18806	19524
10/25 - 10/31	168	2206	20331	14774	325	7716	10783	13575	14964	16105	16907	17758
11/01 - 11/07	168	673	16223	9776	339	2631	5304	7566	10046	12079	13229	14814
11/08 - 11/14	168	943	15455	9341	352	2402	4254	5673	8402	9907	11537	12157
11/15 - 11/21	168	1163	17776	11731	341	4496	7049	9271	11572	12718	13685	14760
11/22 - 11/28	168	1217	16582	11183	338	3588	7921	9140	10338	11739	13339	14692
11/29 - 12/05	168	914	16210	10110	340	2998	5377	7488	9427	11108	12100	13392
12/06 - 12/12	168	673	15455	12544	355	5485	7566	10046	12079	13229	14814	15916
12/13 - 12/19	168	1364	17588	10178	365	12873	13120	1338	14275	15358	16432	17584
12/20 - 12/26	168	1605	15422	10088	323	3450	5836	7075	8429	9668	11281	12704
12/27 - 01/02	161	1325	15582	9329	341	2577	4734	6617	8429	9609	11131	13010
01/03 - 01/09	161	1111	16008	8866	393	1912	3097	4909	6705	7454	8855	10503
01/10 - 01/16	161	1350	17304	10677	364	2631	5304	7566	10046	12079	13229	14814
01/17 - 01/23	161	1364	17588	10178	365	12873	13120	1338	14275	15358	16432	17584
01/24 - 01/30	161	1361	18028	11858	387	13120	1338	14275	15358	16432	17584	18042
01/31 - 02/06	161	1126	19102	11964	412	3622	6948	8817	10594	12855	14136	16232
12/27 - 01/02	161	1240	20598	13160	444	4995	7263	9024	11438	14487	16919	18074
02/14 - 02/20	161	1473	12384	12011	484	3474	5705	7936	10164	12686	15397	17363
02/21 - 02/27	161	1398	13606	491	4374	6982	9484	11974	13865	16867	19139	20150

Table 6.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT CAPE HATTERAS, NC.  
 (STATION NO. 93729) JULY, 1952 - DECEMBER, 1975

CLIMATIC WEEK	NUMBER OBS	MINIMUM RADIATION			MAXIMUM RADIATION			MEAN RADIATION			STD OF MEAN			RECEIVING AT LEAST THE INDICATED AMOUNT			PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT		
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170		
03/01 - 03/07	161	1476	20350	13431	433	4342	6794	10243	13494	14823	16622	18003	18597	19022					
03/08 - 03/14	161	2119	21652	14886	437	5940	9003	11899	12778	16633	16633	19443	20010	20423					
03/15 - 03/21	161	1413	22279	14754	508	4905	10698	7485	10698	12633	16693	18848	20966	21411					
03/22 - 03/28	161	1239	23978	16528	496	6757	9237	12666	16273	18180	20507	21794	22388	22876					
03/29 - 04/04	161	2186	25434	17340	537	7119	9087	14785	17462	19380	21563	22897	23506	24101					
04/05 - 04/11	161	1473	26125	18679	554	6561	11115	15440	18112	21764	22693	24511	24926						
04/12 - 04/18	161	1444	26600	20439	513	8937	13444	18497	20596	23167	24705	25368	26095						
04/19 - 04/25	161	4928	27798	21896	443	11848	18129	21300	22929	23656	24890	25780	26316	26794					
04/26 - 05/02	161	3326	28168	20889	550	9354	13811	18835	21835	23221	24516	26345	26978	27303					
05/03 - 05/09	161	2214	29368	21953	519	12213	16042	19875	22905	24948	25606	26368	27416	27848					
05/10 - 05/16	161	3717	29558	22370	511	11032	17610	21786	24557	26077	27004	27848	28259						
05/17 - 05/23	161	2960	31045	22890	560	10750	16945	20531	24335	26273	27148	27864	28427	28873					
05/24 - 05/30	161	1812	31507	22405	551	11205	19880	22020	24845	26189	27437	28271	29061						
05/31 - 06/06	161	3538	31356	23912	503	12660	20355	22744	24642	26085	28128	28860	29363						
06/07 - 06/13	161	1010	31435	23623	548	13379	18450	22097	24793	26425	27707	28219	28778	29421					
06/14 - 06/20	161	4486	30848	22745	539	11206	17446	20152	22786	25024	27032	27563	28559	29146					
06/21 - 06/27	161	1799	29320	22259	532	10307	17325	21178	23398	24443	26594	26937	27776	28352					
06/28 - 07/04	161	1383	29967	22961	495	11375	18516	21603	24067	25157	26249	27135	28093						
07/05 - 07/11	168	2660	29014	20762	528	10099	14137	17813	20739	22815	24431	25825	26815	27634					
07/12 - 07/18	168	4032	28749	22304	406	15072	17717	20870	22241	24077	25006	26032	26633	27273					
07/19 - 07/25	168	6498	29134	22105	412	13497	17619	20708	22792	24131	24979	25715	26416	27061					
07/26 - 08/01	168	2590	27311	20872	441	12051	15788	18947	20679	22350	23861	25314	25804	26357					
08/02 - 08/08	168	3812	27363	21217	377	14033	17126	19724	21571	22570	23462	24560	25253	25811					
08/09 - 08/15	168	2677	25884	19417	450	9115	14877	17768	19556	20876	22588	23566	24390	25149					
08/16 - 08/22	168	3551	24992	18887	411	9998	13887	17854	19144	2057	22753	23208	24113						
08/23 - 08/29	168	476	25393	17699	477	7101	11820	15262	17457	20239	21012	22153	23059	23877					
08/30 - 09/05	168	1683	24820	18932	408	9691	14715	17777	19551	21300	21878	22479	22992	23403					
09/06 - 09/12	168	2947	23266	17726	403	8030	14049	16209	18451	19783	20535	21447	21863	22267					
09/13 - 09/19	168	24000	16295	418	7354	11037	14840	16488	17834	18744	19012	20212	21097	21559					
09/20 - 09/26	168	1385	21425	16088	385	7537	12172	14751	16057	17753	19033	19740	20290	20589					
09/27 - 10/03	168	222	21117	14279	415	6016	9441	11368	13898	15965	17641	18476	18903	19637					
10/04 - 10/10	168	855	19910	14159	397	5452	9291	12071	14718	16327	17102	18021	18449	18919					
10/11 - 10/17	168	1628	19392	13677	337	5866	10010	11915	13782	15246	16299	17411	17804						
10/18 - 10/24	168	618	17032	11906	356	3661	7124	10115	11540	13773	14443	15397	16079	16691					
10/25 - 10/31	168	410	16354	11103	363	3482	6861	8801	10512	12697	13716	14788	15171	15535					
11/01 - 11/07	168	700	15611	11280	286	5311	7271	10529	11659	12627	13977	14288	14649						
11/08 - 11/14	168	1260	14031	10302	281	4102	6957	9313	10688	11839	12587	13021	13236	13470					
11/15 - 11/21	168	403	13663	9586	270	3959	5911	8602	9819	11127	11743	12207	12455	12773					
11/22 - 11/28	168	325	12678	8829	261	3449	5128	7603	9268	10277	10881	11424	11700	11972					
11/29 - 12/05	168	576	11834	8544	252	2408	4928	7394	9141	10218	11003	11167	11305						
12/06 - 12/12	168	339	12007	7401	258	2192	3513	5041	6794	8467	9713	10237	10603	11389					
12/13 - 12/19	168	732	11259	7457	259	1663	3501	5011	7914	8829	9784	10172	10364	10560					
12/20 - 12/26	168	714	10952	7057	252	1893	3154	5215	6498	7978	9106	9846	10272	10422					
12/27 - 01/02	161	637	10881	7073	256	1941	3271	5089	6796	8157	9086	9736	10164	10518					
01/03 - 01/09	161	647	11902	6707	288	1706	2186	3715	5192	7501	8959	9762	10574	10901					
01/10 - 01/16	161	355	11954	7084	299	1645	2674	3986	6196	7658	9210	10506	11063	11389					
01/17 - 01/23	161	502	13080	8243	304	1870	3581	5929	7594	9249	10934	11591	12095						
01/24 - 01/30	161	562	13842	9143	303	2480	5843	7631	8929	10418	12131	12704	13470						
01/31 - 02/06	161	475	14330	9291	337	15772	2625	6703	8430	9152	11522	13014	13517	13975					
02/07 - 02/13	161	293	15772	9681	383	2696	4571	6006	7736	1043	11043	12657	14222	14712	15230				
02/14 - 02/20	161	956	16962	11298	403	2765	5260	8211	11043	13018	14727	15556	15938	16322					
02/21 - 02/27	161	1369	18556	12168	413	3468	6007	8937	12369	13911	15335	16333	16941	17406					

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT CARIBOU, ME.  
 (STATION NO. 146071) JUL, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER DAYS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						2Q	50	50	50	50	10
03/01 - 03/07	161	992	16708	10338	300	4913	6523	7972	9236	10167	11986
03/08 - 03/14	161	3500	18398	12540	311	6609	8630	10209	11522	13277	14601
03/15 - 03/21	161	2658	20117	13259	380	5832	8375	10438	12384	14049	15599
03/22 - 03/28	161	2313	21406	14339	413	6376	9113	11645	13441	14748	16840
03/29 - 04/04	161	2478	23144	14780	491	5032	8383	9717	13344	15970	18942
04/05 - 04/11	161	2480	24367	15091	490	6456	8752	11088	13421	14939	17523
04/12 - 04/18	161	1609	25803	16427	551	6167	10209	12181	14185	16901	20328
04/19 - 04/25	161	1668	26724	16484	618	4853	7721	10494	14690	17733	20476
04/26 - 05/02	161	1865	27984	17834	614	6204	9867	13197	15341	17691	21644
05/03 - 05/09	161	945	29310	16648	687	4012	6634	9066	13984	18356	21010
05/10 - 05/16	161	1920	30402	18176	680	5278	9044	12817	15375	19505	21958
05/17 - 05/23	161	2817	30452	17559	627	6150	8879	12022	15180	16924	19219
05/24 - 05/30	161	2524	31373	19189	685	6897	9377	12922	15830	20909	23245
05/31 - 06/06	161	1699	32156	18747	713	5246	8611	11716	14246	17151	20757
06/07 - 06/13	161	1897	31822	20359	707	5853	10577	14775	18219	22845	25648
06/14 - 06/20	161	3404	32843	21106	613	9016	14285	16858	19912	22206	25155
06/21 - 06/27	161	2043	31660	19724	630	7181	12069	15026	17781	20502	22513
06/28 - 07/04	161	1928	20904	1625	8077	13615	17362	19559	22255	24729	26608
07/05 - 07/11	168	2990	31757	20004	578	7882	12608	16422	18825	21083	23117
07/12 - 07/18	168	2141	31174	20233	590	7331	13673	15951	18724	21730	24764
07/19 - 07/25	168	2994	29652	20400	558	9258	13139	16856	18914	21964	24626
07/26 - 08/01	168	2307	28571	18839	534	7340	12389	15379	17587	19806	22052
08/02 - 08/08	168	1749	28159	18165	574	6702	10609	14510	16955	19991	21818
08/09 - 08/15	168	2830	27195	17218	524	6505	9755	13104	15719	18627	20761
08/16 - 08/22	168	1143	25585	17153	507	7184	10820	14261	16528	18715	20747
08/23 - 08/29	168	1883	24779	15548	496	5805	9140	11404	14065	16230	18150
08/30 - 09/05	168	1384	23239	14630	483	4287	7907	11829	13474	17862	21909
09/06 - 09/12	168	1040	21925	13567	466	3912	6824	10846	12909	14510	16594
09/13 - 09/19	168	1128	21253	13085	441	4113	6749	9774	12391	14457	16409
09/20 - 09/26	168	318	18931	11033	401	3609	5390	7099	9612	11189	13309
09/27 - 10/03	168	610	17268	10043	389	2805	4381	6458	8193	10494	12124
10/04 - 10/10	168	330	16738	9178	345	2661	4230	6243	8317	9315	10648
10/11 - 10/17	168	456	15772	7776	324	2076	3009	5001	6370	7613	9093
10/18 - 10/24	168	408	15065	7303	285	1807	3337	6596	7334	7705	8974
10/25 - 10/31	168	264	12182	6149	263	2033	2627	3494	4440	5363	6979
11/01 - 11/07	168	294	12451	4843	209	1548	2160	2956	3592	4209	5287
11/08 - 11/14	168	272	9340	4198	193	1560	1788	2287	2969	3490	4371
11/15 - 11/21	168	303	8600	4107	177	1049	1676	2490	3030	3951	4634
11/22 - 11/28	168	360	7515	3741	166	1065	1494	1970	27130	3411	4207
11/29 - 12/05	168	303	7262	3731	139	1287	1909	2443	3059	3521	4253
12/06 - 12/12	168	474	6980	3211	136	965	1314	1879	2334	3013	3601
12/13 - 12/19	168	581	6421	3571	123	1264	2091	2404	2860	3463	4158
12/20 - 12/26	168	663	6332	3448	128	1215	1581	2186	2653	3298	4095
12/27 - 01/03	161	702	6429	3746	120	1516	2255	2652	3267	3863	4331
01/03 - 01/09	161	694	7509	6145	127	1842	2570	3016	3437	4114	4861
01/10 - 01/16	161	720	7548	4414	143	1675	2497	3196	3970	4542	5266
01/17 - 01/23	161	1091	8437	4735	157	2066	2668	3206	3938	4699	5613
01/24 - 01/30	161	953	9272	5578	176	2378	3182	4213	5119	5777	6865
01/31 - 02/06	161	1217	10603	6809	182	2996	4342	5501	6740	7248	7923
02/07 - 02/13	161	1467	11615	7435	215	3206	4715	5762	6999	7801	8823
02/14 - 02/20	161	1692	12913	8668	227	4636	5958	6830	8019	9111	10203
02/21 - 02/27	161	1730	14971	9354	270	4433	5855	6998	8290	9801	11262

Table 8.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT CHARLESTON, SC.  
 (STATION NO. 13880) JUL 1952 - DEC 1975

CLIMATIC WEEK	NUMBER OBS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN RADIALIAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						20	40	70	50	30	10
03/01 - 03/07	161	483	20945	13090	464	3807	6060	9414	12336	14830	16575
03/08 - 03/14	161	1495	21396	14253	425	6100	9935	12567	14509	16797	17851
03/15 - 03/21	161	1244	23031	15243	510	4275	7982	11654	15517	17404	20257
03/22 - 03/28	161	1731	25577	16897	496	6227	11347	14572	17373	19041	21032
03/29 - 04/04	161	1374	25552	17449	555	5190	10458	14510	18151	20035	21519
04/05 - 04/11	161	2400	26426	18112	571	10004	14774	18199	20735	22692	22264
04/12 - 04/18	161	1054	27966	20025	517	8242	14453	17924	20734	22692	22890
04/19 - 04/25	161	4150	28184	21478	417	13409	17373	19446	21488	22946	24189
04/26 - 05/02	161	2272	29303	20231	510	9572	15522	17972	20015	21873	23242
05/03 - 05/09	161	2273	31080	21732	508	11455	16285	20344	22126	24115	24630
05/10 - 05/16	161	2654	30159	21070	508	10303	15958	19023	21469	22752	24656
05/17 - 05/23	161	2014	30053	21437	491	12501	15565	19754	22007	23237	25115
05/24 - 05/30	161	3603	30540	21844	501	9435	15050	17381	19930	21503	23984
05/31 - 06/06	161	5664	29672	21688	459	12138	16726	19469	21796	23539	25782
06/07 - 06/13	161	4117	29487	21052	486	11493	15725	18397	20881	22651	24255
06/14 - 06/20	161	2575	28084	20210	469	11230	14898	17171	19148	21644	23265
06/21 - 06/27	161	3201	28257	20035	496	10008	13834	17245	20725	21756	24054
06/28 - 07/04	161	7256	28712	22451	379	14094	18932	21061	22726	23854	25101
07/05 - 07/11	168	5544	28592	20520	431	11168	14875	17712	20653	22413	23469
07/12 - 07/18	168	4652	30703	19981	419	10704	14881	17725	19554	21245	22689
07/19 - 07/25	168	5319	28503	19494	381	13216	15341	18380	20607	22060	2306
07/26 - 08/01	168	3682	28463	19364	421	10943	13949	17103	19123	21055	24205
08/02 - 08/08	168	5285	25971	18989	388	10866	14197	16986	18931	20909	23265
08/09 - 08/15	168	3492	26007	17914	396	9588	13131	15647	17836	19505	21626
08/16 - 08/22	168	5018	24236	18728	306	12108	15561	17217	19554	21245	22300
08/23 - 08/29	168	3788	25282	16919	390	8785	13216	17378	18642	20607	22060
08/30 - 09/05	168	4386	25811	17115	378	9014	13844	15640	16962	18723	20702
09/06 - 09/12	168	3199	26748	16642	378	9078	12466	14464	16290	17631	18901
09/13 - 09/19	168	2875	27091	15526	399	7055	10805	12756	15091	16262	17834
09/20 - 09/26	168	2867	21681	14986	347	8123	11132	13067	14242	15687	17166
09/27 - 10/03	168	455	21071	14105	376	6267	9546	11446	13676	15355	17551
10/04 - 10/10	168	1912	14675	1328	9021	11489	13095	14727	15555	16622	17987
10/11 - 10/17	168	1747	18888	14124	348	6710	9680	12784	14679	15877	17320
10/18 - 10/24	168	801	17852	12770	376	4375	7951	10255	13693	14992	15987
10/25 - 10/31	168	844	17102	12359	321	5138	7763	10523	12504	14049	15106
11/01 - 11/07	168	309	16266	11915	307	4979	7578	10818	12657	13680	14242
11/08 - 11/14	168	2116	16246	10756	293	4284	6697	9194	11232	12963	13990
11/15 - 11/21	168	1280	14736	10528	248	4810	7975	9778	10971	11444	12308
11/22 - 11/28	168	560	13310	9487	265	3851	6366	7920	9952	10595	11485
11/29 - 12/05	168	755	12768	9278	264	1920	3639	5294	7155	8681	10173
12/06 - 12/12	168	460	12039	8034	267	2294	4373	6433	7753	8603	10259
12/13 - 12/19	168	637	12220	8140	261	2390	4554	6877	7998	9114	10157
12/20 - 12/26	168	927	12253	7856	249	2778	4470	5839	7141	8475	10418
12/27 - 01/03	161	723	12321	7707	290	1915	3386	5122	7216	8800	10174
01/03 - 01/09	161	738	12809	7947	296	12076	3639	5294	7155	8681	10173
01/10 - 01/16	161	681	12903	7837	304	1945	3361	5250	6812	8088	9827
01/17 - 01/23	161	588	14589	8839	310	4373	6433	7753	8603	10259	11405
01/24 - 01/30	161	708	15020	9332	316	4294	4654	6736	8199	9666	11407
01/31 - 02/06	161	817	16274	9569	369	4778	4470	6877	8037	10451	11208
02/07 - 02/13	161	343	17766	11232	381	3725	5386	6552	8368	10650	11484
02/14 - 02/20	161	1204	11862	406	3469	5721	9050	11556	13648	16063	17007
02/21 - 02/27	161	846	21010	12122	443	3046	5584	8904	10629	13634	15147

SOLAR RADIATION IN KILOJOUULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT COLUMBIA, MO.  
 (STATION NO. 03945) JUL. 1952 - DEC. 1975

CLIMATIC WEEK	NUMBER QBS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	RECEIVING AT LEAST THE INDICATED AMOUNT					
						20	80	100	50	40	(MEDIAN)
03/01 - 03/07	161	712	20675	12337	453	2987	5664	8840	11806	14706	15655
03/08 - 03/14	161	62	20618	12331	470	3786	6130	7839	10599	12938	15114
03/15 - 03/21	161	584	23222	13621	538	2834	5614	9392	12094	14755	17675
03/22 - 03/28	161	456	23803	14462	542	4121	7761	9507	12511	16327	18437
03/29 - 04/04	161	1147	24658	14608	569	4428	7086	9101	11501	15632	18644
04/05 - 04/11	161	1219	26013	17743	584	5320	9846	14432	18300	20936	20536
04/12 - 04/18	161	1831	27203	17201	586	5869	9763	11854	15289	18936	21238
04/19 - 04/25	161	1749	29528	18633	600	6342	9618	14632	16452	19107	22156
04/26 - 05/02	161	2439	29198	18995	600	7279	11390	14072	17627	20608	22023
05/03 - 05/09	161	3305	30460	20663	597	8139	13343	17816	20486	22685	24543
05/10 - 05/16	161	3237	32349	20869	621	7734	12845	16797	20316	23370	25432
05/17 - 05/23	161	1372	30554	22034	595	9701	14942	19525	22208	24522	27134
05/24 - 05/30	161	4063	32000	21618	591	10427	13975	16775	20224	23878	24422
05/31 - 06/06	161	3150	32123	22068	585	10781	14829	18081	21925	24624	26008
06/07 - 06/13	161	4243	31702	23187	539	12708	16402	20286	22728	25070	26741
06/14 - 06/20	161	2728	31934	23939	515	14496	19260	21322	23546	25468	26635
06/21 - 06/27	161	6014	33544	24616	515	13080	18998	22047	25073	27012	28134
06/28 - 07/04	161	5114	32064	24977	440	16611	19654	23414	24582	26511	27872
07/05 - 07/11	168	6691	32475	25154	441	20134	23992	27923	30413	32773	34519
07/12 - 07/18	168	6397	32339	23762	478	12742	19132	22018	24345	27076	27941
07/19 - 07/25	168	3167	30128	23127	462	14491	18169	21054	23741	25852	28083
07/26 - 08/01	168	3840	30425	23133	457	13973	18646	21349	23753	25214	28577
08/02 - 08/08	168	4674	28827	22047	483	11863	17272	19865	22047	24842	29153
08/09 - 08/15	168	3730	29298	21715	457	11937	16961	20789	22646	24525	28519
08/16 - 08/22	168	4682	28068	20986	419	11669	17656	19841	21684	24643	26944
08/23 - 08/29	168	2706	27316	21114	375	14219	18531	20321	21644	23631	24364
08/30 - 09/05	168	2368	25125	18565	438	10125	13933	16034	18992	20897	22878
09/06 - 09/12	168	4023	24090	18520	393	10242	14626	18030	19082	20224	21159
09/13 - 09/19	168	825	22665	15601	464	6154	9032	13047	16067	17843	18797
09/20 - 09/26	168	1494	15559	14503	437	5456	8454	11444	13491	16201	17729
09/27 - 10/03	168	2034	20782	15716	369	7708	11035	14713	17673	20387	23374
10/04 - 10/10	168	477	19273	13757	421	3709	7147	10231	14925	16277	17336
10/11 - 10/17	168	367	17622	12630	347	4735	8424	10783	12926	14211	15309
10/18 - 10/24	168	1519	17298	12002	350	3602	6885	10291	12443	14808	15344
10/25 - 10/31	168	1069	15566	10208	355	2956	4717	7276	992	12028	13249
11/01 - 11/07	168	968	14641	8836	320	2696	4083	5738	7773	9945	11341
11/08 - 11/14	168	414	14043	8463	308	2128	3610	6146	7606	9899	10954
11/15 - 11/21	168	408	12457	7454	291	1959	2886	4116	6389	8969	9715
11/22 - 11/28	168	274	11280	7306	250	2256	3203	5104	7174	8242	9096
11/29 - 12/05	168	276	11323	6673	252	1743	2901	4287	5859	7548	8739
12/06 - 12/12	168	313	11499	5874	261	1273	1788	3110	4558	6107	7903
12/13 - 12/19	168	253	11233	6071	232	1701	2778	3551	5045	6545	8746
12/20 - 12/26	168	424	10844	5717	249	1396	2132	2925	4411	5572	7382
12/27 - 01/02	161	639	10670	5992	250	1764	2325	3433	4658	6149	7336
01/03 - 01/09	161	479	11157	6751	250	1580	3077	4923	6796	8617	9264
01/10 - 01/16	161	1035	12805	6712	254	1771	3045	4280	6110	7197	8539
01/17 - 01/23	161	623	12670	6654	289	1380	2379	3983	5405	7083	8746
01/24 - 01/30	161	552	13581	7696	316	1993	3193	4134	6165	6545	8476
01/31 - 02/06	161	666	15634	8227	343	2214	2973	4729	7030	8327	9266
02/07 - 02/13	161	618	15603	9324	359	2470	4117	6310	7763	8993	10527
02/14 - 02/20	161	645	17010	10599	368	3183	5566	7569	9689	11973	13137
02/21 - 02/27	161	832	20978	10659	462	2475	3524	5248	9176	11664	14439

Table 10.

SOLAR RADIATION IN KILOJODULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT DODGE CITY, KA.  
 (STATION NO. 13985) JUL. 1952 - DEC. 1975

CLIMATIC WEEK	NUMBER OBS	MINIMUM RADIATION			MAXIMUM RADIATION			MEAN RADIATION			STD OF MEAN			PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
		90	80	70	60	50	40	30	20	10	(MEDIAN)								
03/01 - 03/07	161	1910	20733	14972	415	6656	9676	12835	15473	17018	18069	18827	19435	20043					
03/08 - 03/14	161	1290	22628	15518	481	5177	9380	16940	16346	17764	19147	19979	20740	21559					
03/15 - 03/21	161	2324	26885	17853	466	6967	13533	15919	16597	20143	21157	21838	22491	22938					
03/22 - 03/28	161	1071	25350	18502	536	5333	12600	17203	20246	21388	22319	23128	23647	24021					
04/01 - 04/04	161	514	28453	18819	577	6053	12870	16412	19210	21613	23060	24216	24940	25379					
04/05 - 04/11	161	433	30349	20088	569	8377	13885	17353	20705	23003	24664	25391	25941	26531					
04/12 - 04/18	161	2972	30375	21782	543	10667	15763	20216	23034	24470	25758	26627	27077	27714					
04/19 - 04/25	161	3084	32448	22853	533	10894	17313	21437	24079	25287	26746	27562	28077	28528					
04/26 - 05/02	161	2948	31072	22008	591	8859	15060	19513	22336	24965	26266	27498	28509	29043					
05/03 - 05/09	161	515	31017	23249	638	7730	15757	21147	25281	26922	28247	28988	29429	29812					
05/10 - 05/16	161	4520	32276	23703	595	10354	16491	20792	24689	27617	28441	29194	29911	30262					
05/17 - 05/23	161	2749	31860	23587	647	10103	15556	21893	24760	27194	28587	29667	30168	30693					
05/24 - 05/30	161	3252	33364	24765	555	14846	19280	22476	25287	27133	28436	29830	30466	30953					
05/31 - 06/06	161	3400	32755	25086	565	12417	20255	23699	26085	27557	28727	29922	30595	31293					
06/07 - 06/13	161	6749	32595	26377	452	16973	22383	25262	26336	27867	29293	30262	31067	31513					
06/14 - 06/20	161	473	33398	26701	517	15554	22054	25928	28159	29470	30252	30913	31307	31856					
06/21 - 06/27	161	7514	33088	27664	406	20088	23160	26481	28197	30163	30644	31106	31256	31576					
06/28 - 07/04	161	9482	34096	27838	367	21192	24562	27386	28418	29682	30270	30653	30977	31563					
07/05 - 07/11	168	3813	34130	26299	465	17063	22299	25945	27700	28630	29298	29882	30371	30805					
07/12 - 07/18	168	6356	30988	25575	416	17666	21984	24412	26365	27619	28350	29150	29766	30238					
07/19 - 07/25	168	5111	31579	25276	419	16638	21471	23774	26111	27091	28247	29112	29537	29909					
07/26 - 08/01	168	5988	30388	26064	312	19743	22783	25258	26678	27635	28164	28700	29020	29491					
08/02 - 08/08	168	7211	30673	25358	370	18004	22921	25212	26226	27251	27883	28249	28555	28867					
08/09 - 08/15	168	4347	29212	23868	427	15837	20949	23859	25125	26186	26628	27224	27600	28132					
08/16 - 08/22	168	5772	28836	22252	442	12328	17938	20394	23335	24422	25419	26221	26806	27217					
08/23 - 08/29	168	3304	28171	22255	428	14243	18367	21633	23414	24346	25087	25858	26364	26676					
08/30 - 09/05	168	3656	27075	20921	474	9024	16077	20076	22399	23551	24612	25097	25400	25771					
09/06 - 09/12	168	3747	25421	20746	413	12213	17220	20461	23186	23808	23781	24159	24340	24812					
09/13 - 09/19	168	2006	25090	18369	482	7769	12482	16991	18084	21518	22223	22860	23202	23744					
09/20 - 09/26	168	2230	24507	17322	485	5275	11000	15852	18862	20633	21316	21704	22044	22374					
09/27 - 10/03	168	2569	21643	18370	332	11670	16962	18982	19954	20227	20414	20603	20812	21068					
10/04 - 10/10	168	2105	20620	16746	355	9208	14552	17302	18322	18863	19101	19324	19563	19748					
10/11 - 10/17	168	1396	19541	15029	354	7668	11056	13958	16273	17358	17755	18072	18348	18644					
10/18 - 10/24	168	1017	18401	13859	338	6530	9889	13207	14987	15841	16506	16798	17070	17385					
10/25 - 10/31	168	706	17181	12034	356	3639	12038	15038	15927	15901	14997	15384	15749	16143					
11/01 - 11/07	168	826	10988	337	3160	5947	9722	11736	13014	13839	14239	14505	14732	15000					
11/08 - 11/14	168	1119	14550	10984	269	5067	8385	10148	11539	12968	13267	13577	13844	14100					
11/15 - 11/21	168	776	13658	9574	285	3534	5442	8241	10271	11470	12068	12332	12481	12785					
11/22 - 11/28	168	1501	1351	239	211	4684	6115	8264	9703	10263	11176	11602	11857	12025					
11/29 - 12/05	168	613	12270	8831	231	3771	5987	7986	8923	10151	10692	11324	11539	11673					
12/06 - 12/12	168	896	11884	8042	234	3248	4478	6385	8270	9360	9895	10367	10645	10908					
12/13 - 12/19	168	1198	11767	8390	209	3774	6145	7544	8868	9641	10044	10228	10544	10730					
12/20 - 12/26	168	899	11563	8167	223	2945	5266	7269	8600	9472	9957	10256	10384	10634					
12/27 - 01/02	161	997	11526	8401	229	2976	5491	8056	9196	9597	10055	10412	10598	10837					
01/03 - 01/09	161	1475	12198	8976	211	4684	6115	8264	9703	10263	10564	10786	11052	11230					
01/10 - 01/16	161	1214	9398	205	5531	7186	8693	9771	10409	10980	11290	11523	11673						
01/17 - 01/23	161	1233	13925	8983	266	3704	5400	7183	8572	9988	1044	10876	11164	11405					
01/24 - 01/30	161	1755	14430	10371	251	4870	7473	9147	10659	11635	12287	12694	12961	13272					
01/31 - 02/06	161	1055	15410	11526	8401	10271	11470	12068	13040	14020	14635	15091	15443	15751					
02/07 - 02/13	161	988	1118	306	337	4375	7506	11086	1228	13377	13906	14134	14432	14761					
02/14 - 02/20	161	17495	12074	12667	368	4477	7676	11327	13012	14531	15493	16093	16518	17011					
02/21 - 02/27	161	19267	14287	14827	357	6462	10137	12665	14814	16260	16968	17678	18081	18378					

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT EL PASO, TX.  
 (STATION NO. 23044) JUL. 1952 - DEC. 1975

CLIMATIC WEEK	NUMBER DWS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	RECEIVING AT LEAST THE INDICATED AMOUNT					
						90	80	70	60	50	40
03/01 - 03/07	161	7570	23340	19480	297	12907	16630	19010	20214	21322	21635
03/08 - 03/14	161	6722	24606	20731	322	13525	18668	20693	21725	22180	22880
03/15 - 03/21	161	4978	26497	21643	359	15385	18619	21176	22479	24103	24469
03/22 - 03/28	161	10838	27668	23718	268	18987	21433	23020	23982	25053	25100
03/29 - 04/04	161	9815	28303	24629	288	18495	21623	24347	25563	26179	26600
04/05 - 04/11	161	9913	29457	26101	264	21037	23866	26029	26926	27347	27676
04/12 - 04/18	161	9880	30825	26774	324	19077	20445	26974	27825	27972	28277
04/19 - 04/25	161	6684	31992	27851	319	23576	26500	28048	28686	29298	29534
04/26 - 05/02	161	7322	32244	27923	377	20032	26091	28176	29247	29893	30299
05/03 - 05/09	161	12880	33031	29104	276	24167	27329	28526	29827	30433	30823
05/10 - 05/16	161	4652	33496	29375	347	24566	26951	29584	30376	31076	32000
05/17 - 05/23	161	13348	33976	30103	249	25877	28574	29604	30621	31395	31846
05/24 - 05/30	161	11621	34040	29951	286	25058	28397	29512	30019	30962	31476
05/31 - 06/06	161	9678	34013	30077	320	25049	28394	29821	30831	31373	31686
06/07 - 06/13	161	10579	34295	30344	302	24609	28374	30262	30787	31580	32194
06/14 - 06/20	161	17002	34704	31103	222	28047	30252	30711	31476	32116	32485
06/21 - 06/27	161	8600	34090	30495	287	28319	29639	30297	31054	31390	31632
06/28 - 07/04	161	7300	33955	29482	351	24416	27951	2979	30282	30869	31341
07/05 - 07/11	168	9399	33753	27956	404	19189	24392	27265	29074	30716	31742
07/12 - 07/18	168	10598	33125	28254	318	23495	25982	27508	29124	30479	30975
07/19 - 07/25	168	11505	32958	27661	324	21166	24997	26621	28462	29752	30228
07/26 - 08/01	168	11871	32361	26358	321	20330	22775	24514	26597	27715	29642
08/02 - 08/08	168	6710	31211	26906	296	21901	24447	26054	27217	28139	29284
08/09 - 08/15	168	15041	31232	26659	268	21647	24342	25524	27120	28130	28494
08/16 - 08/22	168	10828	30543	25493	277	21150	23146	24324	25618	26616	27032
08/23 - 08/29	168	7149	30034	25043	312	18385	24663	24399	25868	27548	27858
08/30 - 09/05	168	3980	28746	24132	346	18528	21463	23989	24918	25837	26450
09/06 - 09/12	168	8970	27440	23338	297	17737	20198	23037	24065	24838	25280
09/13 - 09/19	168	6037	25974	22560	283	17028	20867	21752	23460	24093	24433
09/20 - 09/26	168	3500	25090	21367	352	15052	18670	21715	22570	23466	23998
09/27 - 10/03	168	3689	24500	20697	336	13829	19097	21124	21968	22656	23078
10/04 - 10/10	168	4704	23558	20193	262	15815	18875	20482	21258	21574	21784
10/11 - 10/17	168	2709	22743	19288	246	15510	17933	19613	20207	20517	20665
10/18 - 10/24	168	3450	20859	17883	268	12924	17011	18380	18890	19241	19443
10/25 - 10/31	168	2352	19759	16451	277	11026	14687	16507	17713	18018	18234
11/01 - 11/07	168	2513	18556	15797	237	12017	14844	15951	16682	17194	17289
11/08 - 11/14	168	17251	14051	11295	223	6365	9029	10697	12156	12654	13017
11/15 - 11/21	168	4084	16600	13935	193	10479	12148	13400	14855	16159	16337
11/22 - 11/28	168	1530	15466	12583	265	6183	1030	12926	13653	14634	15078
11/29 - 12/05	168	2917	15371	12203	204	8080	10073	11983	12926	13347	13673
12/06 - 12/12	168	1613	14506	115797	226	7673	10415	11583	13131	13612	14000
12/13 - 12/19	168	1176	14051	11295	250	7830	10073	12338	13460	14420	14838
12/20 - 12/26	168	2434	14090	11651	212	8162	10363	11599	12488	13140	13228
12/27 - 01/02	161	1575	14886	11482	234	6129	8707	10991	12513	13110	13325
01/03 - 01/09	161	2138	15045	11493	257	5651	8984	10850	12048	12954	13491
01/10 - 01/16	161	3335	15478	12888	210	8612	11583	13131	13612	14000	14249
01/17 - 01/23	161	2172	12916	10451	223	6365	9029	10697	12156	12654	13017
01/24 - 01/30	161	2043	16919	14066	247	9146	12862	14078	14613	15296	15679
01/31 - 02/06	161	2220	17986	14901	261	9048	13173	14359	15377	16100	16761
02/07 - 02/13	161	2777	19319	15656	295	9691	13641	15103	16505	17147	17522
02/14 - 02/20	161	4342	20742	17370	261	12295	15593	17097	18231	18685	18960
02/21 - 02/27	161	3455	22051	18309	295	12954	16603	17962	19344	19798	20180

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SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT ELY, NV.  
(STATION NO. 23154) DEC. 1951 - DEC. 1975

CLIMATIC WEEK	NUMBER DAYS	RADIATION			STD OF MEAN	2Q	8Q	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT			
		MINIMUM	MAXIMUM	MEAN				2Q	5Q	10Q	2Q
03/01 - 03/07	168	4506	20894	16047	327	8770	11948	14635	16229	17683	18590
03/08 - 03/14	168	5231	22922	16970	331	10457	12905	16572	18327	19320	19022
03/15 - 03/21	168	7350	24241	16985	346	11859	14761	16609	19361	20751	20811
03/22 - 03/28	168	6770	26622	19573	388	11609	14330	17149	18816	20652	21769
03/29 - 04/04	168	7340	28339	21168	419	12525	15354	18226	20385	23374	21954
04/05 - 04/11	168	6249	28573	22015	436	13105	17262	19171	21456	24614	25605
04/12 - 04/18	168	5836	30261	23130	452	14517	17628	20798	22848	25213	26011
04/19 - 04/25	168	7808	31040	23317	475	13408	17169	20591	22982	24871	26098
04/26 - 05/02	168	7499	33027	24819	492	14291	19104	21904	24304	26111	27963
05/03 - 05/09	168	9584	33659	25395	455	15849	20233	22635	25359	26633	27750
05/10 - 05/16	168	7992	33806	26414	478	16753	21427	24238	26431	27939	29996
05/17 - 05/23	168	7814	34009	26217	472	16166	21056	24270	25913	27647	28992
05/24 - 05/30	168	8682	34684	26559	468	17529	21030	24307	26528	28152	30514
05/31 - 06/06	168	7281	35439	26732	522	15845	20796	23888	26054	28792	30601
06/07 - 06/13	168	4630	35680	27363	553	16318	20528	24057	27111	29430	31058
06/14 - 06/20	168	7985	35619	28293	476	19143	22453	26204	28709	30037	30938
06/21 - 06/27	168	9798	35654	30102	395	23205	27188	30601	32417	32796	30914
06/28 - 07/04	168	11275	35641	31215	315	25457	29077	30789	32079	32730	31741
07/05 - 07/11	168	11828	36516	29564	345	22955	26058	28184	29927	31065	32152
07/12 - 07/18	168	14315	37398	401	19558	22348	24607	26452	28340	30173	31545
07/19 - 07/25	168	12709	34428	26702	378	20234	22213	24174	25897	27230	32652
07/26 - 08/01	168	11738	32542	25488	362	19235	21018	23005	24103	26110	32503
08/02 - 08/08	168	13676	32271	26420	354	19627	21421	24340	26105	27744	30454
08/09 - 08/15	168	10839	30964	25488	321	19457	22242	24206	26120	26149	28981
08/16 - 08/22	168	10276	30118	24277	368	16003	19870	22461	24260	25505	29659
08/23 - 08/29	168	12375	28705	25346	256	20556	23111	24324	25607	27412	30030
08/30 - 09/05	168	8259	27446	23985	325	16475	21181	24048	25027	25898	26316
09/06 - 09/12	168	6453	26448	23025	285	16938	21232	22784	24674	25010	26915
09/13 - 09/19	168	9145	25424	21918	308	15010	19006	21886	23413	23775	25483
09/20 - 09/26	168	3091	23886	20690	302	15711	18507	20812	21778	22243	23235
09/27 - 10/03	168	4336	22805	19654	257	14602	18019	19905	20630	20828	21227
10/04 - 10/10	168	5753	21419	17666	262	12484	14814	17335	18383	19124	19884
10/11 - 10/17	168	2125	19520	16464	277	10892	14147	16446	17385	18067	18395
10/18 - 10/24	168	2846	18222	14794	270	9984	11627	14192	15561	16577	18820
10/25 - 10/31	168	0	17081	13059	259	8083	10884	13483	14703	14971	17111
11/01 - 11/07	168	3483	15486	12057	7125	9224	12359	13304	13767	14248	14956
11/08 - 11/14	168	1802	14002	10688	236	6265	7805	9138	10576	11701	12406
11/15 - 11/21	168	2807	13995	9850	202	5571	7401	8492	9861	10811	11434
11/22 - 11/28	168	3063	12218	9769	166	6103	8311	9332	10032	10634	11004
11/29 - 12/05	168	1932	11466	8767	186	5050	6547	7814	8921	9811	11234
12/06 - 12/12	168	175	12128	8441	178	4746	5958	7567	8743	9335	9962
12/13 - 12/19	168	2598	11095	8156	168	4435	5929	6986	7875	9121	9667
12/20 - 12/26	168	1875	10737	7819	179	4285	5518	6218	7846	8597	9308
12/27 - 01/02	168	2838	10878	8493	147	5336	6734	7556	8489	9143	9619
01/03 - 01/09	168	2912	12502	8741	167	5031	6617	7553	8835	9502	10037
01/10 - 01/16	168	2660	12419	8847	176	5566	6525	7648	8395	9532	10259
01/17 - 01/23	168	1522	13217	9209	217	4540	5208	6208	7982	9147	10847
01/24 - 01/30	168	2662	14497	10221	222	5354	7902	9325	10143	10994	11351
01/31 - 02/06	168	2430	14889	11369	230	6238	8923	10427	11426	11800	12392
02/07 - 02/13	168	2520	17900	11756	283	5775	7814	9542	11209	13097	12022
02/14 - 02/20	168	4402	17612	13165	256	8158	9990	11378	12663	13324	14206
02/21 - 02/27	168	4360	19254	14618	273	9480	11113	12696	14099	15599	16710

SOLAR RADIATION IN KILOJODULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT FT. WORTH, TX.  
 (STATION NO. 03927) JULY, 1952 - JULY, 1975

CLIMATIC WEEK	NUMBER DAYS	MINIMUM RADIATION		MAXIMUM RADIATION		STD OF MEAN RADIATION	MEAN RADIATION	STD OF MEAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
		SD	4Q	SD	4Q				SD	4Q	SD	4Q	SD	4Q
03/01 - 03/07	154	1241	21554	14469	497	4483	7228	11542	14283	16714	18601	19540	19986	20517
03/08 - 03/14	154	1353	23729	15514	523	4791	8087	11846	15445	18188	19571	20766	21344	21707
03/15 - 03/21	154	2079	25690	16594	552	4888	8873	12283	16675	19235	21474	21975	22535	22999
03/22 - 03/28	154	3292	25121	17460	534	7141	13269	16529	19851	22028	23195	23619	23937	24612
03/29 - 04/04	154	1329	26169	17715	592	6508	10363	13430	16658	19981	22505	24019	25252	25564
04/05 - 04/11	154	1225	27070	18995	581	7201	11932	15390	18995	21972	23263	24600	25274	25664
04/12 - 04/18	154	1951	27861	18743	630	5622	10144	13675	17652	20920	23300	25630	26174	26675
04/19 - 04/25	154	2337	28086	18594	598	6486	11202	14271	18056	21801	24439	25934	26898	27778
04/26 - 05/02	154	832	29078	17542	693	5655	7820	11771	14783	17291	22291	25316	26778	27731
05/03 - 05/09	154	637	30069	20572	619	7832	12886	16525	20077	22602	25892	26802	27185	28339
05/10 - 05/16	154	1310	30095	20454	637	8039	13722	16339	19949	22802	24816	26452	27465	28460
05/17 - 05/23	154	3481	30609	22273	525	12599	16529	19729	22113	2445	25522	26786	27848	29048
05/24 - 05/30	154	2888	31038	23203	477	13671	18407	20790	22900	24809	26101	26770	27928	30071
05/31 - 06/06	154	4874	31059	23348	468	14415	18663	20732	22634	24786	26339	27509	28487	29752
06/07 - 06/13	154	5924	31583	24344	437	15285	20838	25280	27272	26045	27126	27829	28441	29677
06/14 - 06/20	154	2525	31052	24548	478	15222	21635	23288	25389	26593	27849	28785	29785	29843
06/21 - 06/27	154	7664	30835	25173	422	16577	21604	24877	25942	27025	27558	28128	29212	30125
06/28 - 07/04	154	8254	31185	25466	398	17527	23189	25022	26250	27011	27531	28038	29051	30023
07/05 - 07/11	161	6007	30484	25520	376	17981	23205	24502	26106	27136	27888	28353	28829	29797
07/12 - 07/18	161	7305	30457	24004	434	1481	19007	23375	24860	25947	26904	27697	28099	29060
07/19 - 07/25	161	6042	29766	23629	421	15071	19778	22448	23648	25285	26229	27305	27836	28423
07/26 - 08/01	154	3183	29571	24301	428	15871	22198	24362	25416	26164	26566	27065	27806	28439
08/02 - 08/08	154	6208	28580	23992	358	17796	2150	23624	24377	2531	27008	27809	27872	28392
08/09 - 08/15	154	4414	27954	22521	406	15174	18131	21100	22830	24690	25388	25907	26399	276918
08/16 - 08/22	154	7522	26876	22203	360	15178	19356	21286	22930	24093	24651	25020	25451	25902
08/23 - 08/29	154	2859	26140	21674	345	16171	19136	21328	22080	23043	23684	24198	24719	25383
08/30 - 09/05	154	3637	26835	20398	399	12057	16790	19524	20968	22056	22997	23202	24103	24784
09/06 - 09/12	154	2081	24660	19512	434	9927	15455	18915	20685	21541	22233	23049	23442	23854
09/13 - 09/19	154	3480	24118	18304	427	8484	14125	17468	18949	20250	20893	21958	22449	22909
09/20 - 09/26	154	1756	22961	16502	442	7676	11473	14379	15891	17892	19528	20827	21468	21884
09/27 - 10/03	154	1144	22482	17107	427	6977	13021	16225	18571	19441	20435	20895	21183	22000
10/04 - 10/10	154	879	20801	15849	432	6139	10890	13959	16988	18684	19330	19717	20000	20184
10/11 - 10/17	154	424	19769	14281	425	5254	8835	12100	14667	16548	17372	18330	18840	19232
10/18 - 10/24	154	1500	19239	1734	359	7005	10881	13840	17468	18936	17509	17795	18195	18794
10/25 - 10/31	154	1195	18986	12579	408	4128	7364	9339	12605	16030	16373	17187	17676	18184
11/01 - 11/07	154	899	16498	11634	393	3150	6303	9222	12499	13935	14960	15492	15696	16010
11/08 - 11/14	154	883	15540	11261	364	4038	6038	8211	11530	13689	14479	14836	15086	15234
11/15 - 11/21	154	995	14864	9917	353	2827	6500	9621	11913	13043	13549	14261	14364	14796
11/22 - 11/28	154	12495	9882	832	2183	6119	8338	9816	12012	12563	13004	13301	13480	13860
11/29 - 12/05	154	650	14350	9119	333	2225	4158	6053	9337	11287	12187	12552	12672	12823
12/06 - 12/12	154	513	12848	8598	340	1809	2942	5943	8163	10538	11925	12361	12470	12872
12/13 - 12/19	154	878	12746	8439	311	2590	3637	5852	7746	10157	11387	11785	12149	12508
12/20 - 12/26	154	1139	12620	9216	278	2956	5715	8492	9483	10804	11511	11912	11996	12127
12/27 - 01/02	154	801	12935	8266	316	1829	3906	5698	7811	9446	10835	11740	12057	12196
01/03 - 01/09	154	905	13929	8655	335	2060	3387	5821	8175	10469	11671	12191	12464	12660
01/10 - 01/16	154	1022	13615	9321	324	2610	4373	6137	9976	10950	12012	12634	12872	13094
01/17 - 01/23	154	947	14778	8666	356	2318	3255	4880	7773	9757	11230	12565	13273	13608
01/24 - 01/30	154	916	15352	9811	395	1926	3742	6185	8860	12110	13160	13821	14414	14718
01/31 - 02/06	154	1193	16384	10641	402	2838	4672	6880	10175	12545	13926	14938	15230	15712
02/07 - 02/13	154	1087	17387	12543	402	4086	6919	10959	13697	14863	15765	16236	16536	16904
02/14 - 02/20	154	1362	18431	11472	471	2726	4867	6532	9227	13708	15626	16781	17344	17778
02/21 - 02/27	154	1062	19771	12846	476	3739	6004	8707	11583	14658	16662	17873	18609	19043

SOLAR RADIATION IN KILOJOUULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT FRESNO, CA.  
(STATION NO. 93193)  
JUL. 1952 - DEC. 1975

CLIMATIC WEEK	NUMBER OBS	MINIMUM RADIATION			MAXIMUM RADIATION			MEAN RADIATION			STD OF MEAN	RECEIVING AT LEAST THE INDICATED AMOUNT	PROBABILITY IN PERCENT OF			
		2Q	BQ	3Q	2Q	BQ	3Q	4Q	5Q	Median			1Q	2Q	3Q	4Q
03/01 - 03/07	161	4492	20323	15551	307	8735	12021	14075	15724	17281	17766	18248	18807	19113		
03/08 - 03/14	161	3538	2199	16404	350	9413	11984	13960	17043	18025	19095	19661	20167	20500		
03/15 - 03/21	161	2532	23364	18513	381	10070	15628	18355	19780	20478	21168	21368	21789	22210		
03/22 - 03/28	161	1167	26071	19257	419	9858	14415	17908	19924	21778	22645	22930	23361	23708		
03/29 - 04/04	161	4847	27222	21304	389	13207	17645	20924	22578	23375	24126	24381	24885	25246		
04/05 - 04/11	161	5605	31805	22183	464	12317	17147	21467	23639	25051	25649	26051	26810			
04/12 - 04/18	161	6787	29736	23754	418	14570	19638	23095	25306	26185	26739	27145	27845			
04/19 - 04/25	161	7746	30000	24805	417	15735	21407	24314	26436	27205	27621	28029	28511	28844		
04/26 - 05/02	161	4343	30906	26528	419	18923	24723	27343	28130	28740	29105	29238	29463	29697		
05/03 - 05/09	161	7098	31822	26298	442	16537	21464	26367	28156	28896	29614	29832	30098	30391		
05/10 - 05/16	161	8254	31825	27941	369	20778	25797	28758	29236	29696	30121	30452	30676	30861		
05/17 - 05/23	161	6594	33498	29135	331	24632	28125	29509	30018	30526	30937	31189	31372	31715		
05/24 - 05/30	161	6958	3214	29512	353	24697	28479	29927	30619	31284	31599	31728	31870	32217		
05/31 - 06/06	161	9695	34923	29730	348	23353	28153	29667	30719	31221	31811	32097	32282	32991		
06/07	161	11763	34071	29889	363	23492	28074	30466	31341	31760	32226	32463	32618	33203		
06/14 - 06/20	161	9059	31652	212	29826	30917	31414	32147	32535	32555	32566	32914	33401			
06/21 - 06/27	161	18730	34769	31889	156	30250	30938	31923	32556	32510	33072	33676	3376			
06/28 - 07/04	161	23951	34002	31873	98	30518	30920	31291	32201	32219	32351	32647	33209			
07/05 - 07/11	168	13893	34930	30819	228	28091	30180	30516	31199	31784	32063	32263	32861			
07/12 - 07/18	168	17276	32533	30722	167	28758	30025	30372	31071	31294	31410	31596	31720	32411		
07/19 - 07/25	168	19353	32979	30438	118	29017	30563	30628	30683	30787	30963	31114	31256	31525		
07/26 - 08/01	168	7083	32302	29092	281	24819	28823	29484	29802	30150	30342	30548	30753	31377		
08/02 - 08/08	168	6891	31983	28617	244	25664	28369	28789	29190	29449	29817	30466	30466	30466		
08/09 - 08/15	168	13183	30703	28118	167	25874	27511	27894	28497	28671	28874	29043	29283	29693		
08/16 - 08/22	168	16053	29331	27440	135	26190	27580	27561	27850	27992	28205	28405	28760			
08/23 - 08/29	168	7485	28409	26135	193	24722	25865	26276	26479	26638	26791	26971	27262	27490		
08/30 - 09/05	168	6616	27090	24870	243	24075	24751	25148	25427	25580	25763	26000	26135	26406		
09/06 - 09/12	168	3532	26062	23583	202	21659	23197	23727	24026	24264	24851	25148				
09/13 - 09/19	168	2628	25100	22348	243	20620	22312	22781	23136	23340	23712	23898				
09/20 - 09/26	168	12319	23666	21469	113	20538	21139	21242	21543	21722	21890	22165	22339	22536		
09/27 - 10/03	168	10390	22734	19880	154	17503	19480	19928	20283	20455	20674	20821	20978	21251		
10/04 - 10/10	168	5749	20653	17694	226	13365	16356	17939	18566	18875	19086	19481	19836			
10/11 - 10/17	168	2834	19402	16525	238	12157	15267	16917	17380	17686	17867	18053	18281	18524		
10/18 - 10/24	168	4415	18065	15163	193	11353	14331	15381	15746	15950	16244	16438	16755	17008		
10/25 - 10/31	168	2937	16684	14107	190	10594	13429	14476	14836	15026	15160	15259	15483	15730		
11/01 - 11/07	168	1614	15118	12161	238	6667	9945	12030	13510	13785	14352	14568				
11/08 - 11/14	168	1899	14256	10665	244	4966	7762	9604	11384	11936	12568	12907	13414			
11/15 - 11/21	168	1356	13581	9423	230	4528	6264	7923	9387	10289	11351	11769	12024	12290		
11/22 - 11/28	168	1293	12672	8669	227	3918	5219	7233	8749	9770	10501	11071	11334	11547		
11/29 - 12/05	168	682	12073	7519	238	3304	4354	5053	6170	8051	8742	10235	10576	10831		
12/06 - 12/12	168	1683	11072	6640	217	2833	3803	4289	5385	6803	7353	8892	96689	10231		
12/13 - 12/19	168	1345	10911	6142	225	2188	3043	4123	4603	5985	7231	8418	9458	10026		
12/20 - 12/26	168	628	10524	5895	221	2044	3122	4110	4465	5510	6671	7796	9277	9827		
12/27 - 01/02	161	1246	10770	6921	219	3259	4118	4622	6204	7389	8058	8595	91116	12741	13243	
01/03 - 01/09	161	614	11687	6711	235	3054	3678	4263	5101	6693	7966	9571	10058	10288		
01/10 - 01/16	161	1174	11939	6978	244	2516	3856	4540	5602	6975	8443	9426	10131	10869		
01/11 - 01/23	161	649	12136	7409	245	3119	4415	5367	6200	7281	8942	9510	10743	11471		
01/24 - 01/30	161	1628	12845	8675	258	4056	5123	6063	7799	9276	10350	11535	12047	12432		
01/31 - 02/06	161	1472	14099	8557	279	3946	5332	5799	6804	8595	9559	11116	12741	13243		
02/07 - 02/13	161	1502	15527	10275	325	3543	8025	8905	11515	12766	13689	14154	14632	15617	16154	
02/14 - 02/20	161	1294	12189	316	8137	11375	13057	14645	16254	16736	16940	16254				
02/21 - 02/27	161	18551	14162	281												

Table 15.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT GREAT FALLS, MN.  
 (STATION NO. 24143) JUL 1952 - DEC 1975

CLIMATIC WEEK	NUMBER DAYS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						2Q	5Q	10Q	20Q	40Q	50Q
03/01 - 03/07	161	2938	16439	11526	256	6318	9177	10389	11530	12197	13507
03/08 - 03/14	161	3029	18446	12208	297	6784	8897	10432	11463	12968	13894
03/15 - 03/21	161	1848	19666	13712	331	7521	9661	11705	13108	14461	15487
03/22 - 03/28	161	3622	21854	14807	378	7263	9612	12934	14607	15753	17291
03/29 - 04/04	161	3215	23091	15508	393	8008	11097	12596	14604	16500	17269
04/05 - 04/11	161	2094	24418	16390	440	7062	11452	13688	15464	17604	19176
04/12 - 04/18	161	2430	25823	17417	496	8349	10423	14084	16045	18635	20931
04/19 - 04/25	161	3321	27526	17709	467	9586	12137	13916	16016	18390	20294
04/26 - 05/02	161	3081	30125	17313	552	7328	10554	12694	15042	17024	19958
05/03 - 05/09	161	1760	29271	19314	582	7740	11817	15007	18160	21029	23067
05/10 - 05/16	161	1715	30869	21099	571	9463	14884	17546	21115	22986	24880
05/17 - 05/23	161	190	33113	21312	639	7114	13472	18116	21363	23525	27051
05/24 - 05/30	161	2182	34021	22383	592	11116	15256	19463	22125	24067	27051
05/31 - 06/06	161	2165	32123	22610	631	9540	15036	19719	22272	24459	28024
06/07 - 06/13	161	2791	33932	22622	614	9850	15802	19857	22103	23482	26542
06/14 - 06/20	161	2423	33335	24546	577	12592	18612	2390	24433	26477	26519
06/21 - 06/27	161	4440	33067	24709	595	11027	18252	22440	25233	26016	27501
06/28 - 07/04	161	4670	33399	25906	569	12399	18895	24673	26395	28505	30294
07/05 - 07/11	168	3818	3878	26893	459	18322	22781	25471	27171	28987	30116
07/12 - 07/18	168	5436	32060	26527	439	17497	22322	25200	27050	28729	29977
07/19 - 07/25	168	31429	26419	398	12500	18828	23391	25893	27161	28059	29095
07/26 - 08/01	168	9825	30653	25570	365	18916	21689	24902	26380	27439	28081
08/02 - 08/08	168	3946	29961	24175	363	17554	21229	23006	24273	25500	28698
08/09 - 08/15	168	5242	28379	22817	395	14711	18626	21335	23150	25654	28597
08/16 - 08/22	168	2989	27000	21253	450	11119	17175	19798	22155	23324	27236
08/23 - 08/29	168	4440	25538	20130	361	13370	15776	18464	20353	21342	24757
08/30 - 09/05	168	3469	23922	18112	423	8507	13626	15883	18478	20208	22762
09/06 - 09/12	168	2969	22548	16817	412	7604	11648	14768	17151	18748	20086
09/13 - 09/19	168	1866	21083	15541	386	7656	10467	13561	15486	17550	18446
09/20 - 09/26	168	2139	19361	14306	352	6889	9971	12418	14113	15992	17241
09/27 - 10/03	168	1529	18041	13110	319	6620	9454	12176	14468	15457	16586
10/04 - 10/10	168	2163	16262	11564	286	5472	7958	9838	11558	12583	13450
10/11 - 10/17	168	1261	14891	10372	263	5628	7347	8254	9675	11271	12428
10/18 - 10/24	168	1077	13234	9064	229	4790	5982	7690	8743	9682	10694
10/25 - 10/31	168	1516	11972	8221	208	3957	7049	8045	8772	9456	10660
11/01 - 11/07	168	571	10446	6863	201	2596	4128	5584	6353	7652	8826
11/08 - 11/14	168	617	9637	5939	160	2957	4059	4732	5232	6005	6840
11/15 - 11/21	168	8443	5457	4547	147	5256	3372	4435	5379	5961	6436
11/22 - 11/28	168	811	7537	4667	132	2225	2858	3608	4463	4945	5439
11/29 - 12/05	168	1389	6740	4335	109	2402	2855	3368	3862	4568	4927
12/06 - 12/12	168	680	6702	3936	114	1735	2542	2960	3469	4158	4584
12/13 - 12/19	168	969	6691	5956	122	2313	3036	3464	3967	4443	4997
12/20 - 12/26	168	791	6821	5760	104	1720	2554	2927	3353	3972	4324
12/27 - 01/02	161	416	6201	3740	109	1874	2382	2937	3290	3934	4345
01/03 - 01/09	161	1154	6771	4130	110	2138	2721	3294	3678	4278	4684
01/10 - 01/16	161	1050	7801	4474	122	2313	3036	3464	3967	4443	4997
01/17 - 01/23	161	651	9269	4956	138	2508	3264	3936	4508	5011	5684
01/24 - 01/30	161	1612	9225	5624	157	2624	3887	4411	4956	5741	6184
01/31 - 02/06	161	1466	11018	6350	172	3216	4329	5245	5844	6409	6835
02/07 - 02/13	161	1518	11303	7414	197	3601	5125	6029	6760	7510	8033
02/14 - 02/20	161	1237	12377	8422	209	4488	6254	7263	7897	8602	9372
02/21 - 02/27	161	2815	14194	9826	221	5530	7043	8244	9381	10845	11270

Table 16.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT LAKE CHARLES, LA.  
 (STATION NO. 03937) JULY, 1952 - DECEMBER, 1975

CLIMATIC WEEK	NUMBER OBS.	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	RECEIVING AT LEAST THE INDICATED AMOUNT						10
						20	30	40	50	60	(MEDIAN)	
03/01 - 03/07	161	1226	22181	13093	452	4580	7681	9489	11924	13849	15087	16994
03/08 - 03/14	161	1320	22824	13801	470	5599	7890	9628	11492	14152	16627	18649
03/15 - 03/21	161	1224	20888	15921	484	6530	9584	12930	15065	17106	19222	20914
03/22 - 03/28	161	2593	26694	15786	548	5730	7610	10723	13765	17351	20662	21992
03/29 - 04/04	161	2227	25666	17536	496	8087	11394	14232	16209	18660	21304	22752
04/05 - 04/11	161	1038	26562	16660	553	6172	9581	11537	14945	17445	19946	23646
04/12 - 04/18	161	1810	27011	17995	528	12010	14912	16115	18776	20958	23167	23940
04/19 - 04/25	161	304	27844	18460	493	9068	12010	14719	17161	20162	21824	24121
04/26 - 05/02	161	2303	27568	18019	494	9134	11906	14818	17071	18605	20562	22108
05/03 - 05/09	161	2899	28360	20470	500	10913	14940	18171	20813	21976	23370	24923
05/10 - 05/16	161	2126	30375	20907	480	11618	15962	18217	20842	22144	23751	25036
05/17 - 05/23	161	119	29718	21608	483	12494	16142	19001	21636	23566	26533	27136
05/24 - 05/30	161	4913	29833	22093	428	13588	17978	20610	21981	23479	24443	25892
05/31 - 06/06	161	2772	29332	22622	450	12546	19381	22310	23661	24669	25474	26423
06/07 - 06/13	161	4788	29433	22701	417	13619	18970	21273	23456	24768	25461	26608
06/14 - 06/20	161	2755	28658	22263	441	13526	18138	20728	22558	23962	25106	26590
06/21 - 06/27	161	1994	29021	21854	428	14391	17500	20480	22543	23663	24802	25941
06/28 - 07/04	161	3795	29248	21621	435	14139	17150	19201	21785	23600	24540	25195
07/05 - 07/11	168	6555	30301	21639	413	11798	17820	19877	21673	23229	24221	25720
07/12 - 07/18	168	3500	30242	19991	438	10920	15319	18127	20146	21522	22904	23581
07/19 - 07/25	168	5263	28658	19166	413	10853	14418	16223	18700	20217	21005	22969
07/26 - 08/01	168	5901	27733	19534	404	11586	14386	17314	18933	20901	22367	23154
08/02 - 08/08	168	4512	27673	20221	421	11627	15765	18798	20939	21973	22705	23471
08/09 - 08/15	168	3331	27453	19048	414	11153	14200	17429	19081	20631	21837	22681
08/16 - 08/22	168	2607	26461	18990	396	11128	13907	17059	18938	20603	21840	22556
08/23 - 08/29	168	1479	25366	16990	440	8308	11034	14231	16431	18189	19897	21237
08/30 - 09/05	168	1874	24821	17596	404	8782	13111	15282	17447	19570	20594	21233
09/06 - 09/12	168	3827	23727	17394	388	8934	13604	14964	17177	18989	20092	21794
09/13 - 09/19	168	3428	22946	16760	373	8558	12304	14508	16605	18114	19346	20110
09/20 - 09/26	168	1914	22161	16422	389	8303	11356	14804	16892	18233	19323	20654
09/27 - 10/03	168	2455	21764	16620	347	9017	13259	16301	17161	17849	19063	19675
10/04 - 10/10	168	2344	21605	15827	338	8594	12476	14621	16462	17190	17919	18885
10/11 - 10/17	168	708	19648	14821	350	6697	11497	13573	15065	16424	17554	18182
10/18 - 10/24	168	3793	19909	14985	266	9605	11894	15482	16356	16903	17429	17756
10/25 - 10/31	168	1261	18151	12720	348	4664	8889	10867	12851	14219	16008	16437
11/01 - 11/07	168	2081	16614	11250	324	4708	7059	8704	1015	12236	13642	14702
11/08 - 11/14	168	904	11114	11114	320	3999	6712	9460	10790	12687	13584	14492
11/15 - 11/21	168	629	10227	10023	312	3369	5442	6767	9619	11123	12518	13960
11/22 - 11/28	168	1276	14234	9333	294	3618	4959	6961	8713	10144	11662	12345
11/29 - 12/05	168	47	13952	9143	302	2795	4638	6992	8873	10305	11408	12841
12/06 - 12/12	168	99	13266	8202	313	2498	3648	5296	6729	8896	10608	11971
12/13 - 12/19	168	516	13233	7809	324	4743	4027	4638	6767	8434	10159	11036
12/20 - 12/26	168	13159	9333	342	2851	4067	5580	6920	8409	9516	11118	11927
12/27 - 01/02	161	381	13197	7337	303	1954	3207	4526	5732	7289	8854	10097
01/03 - 01/09	161	573	13291	4	302	2795	4638	6992	8873	10305	11408	12841
01/10 - 01/16	161	327	13931	8582	332	2520	3803	5461	6645	9221	11407	12427
01/17 - 01/23	161	290	15354	7900	313	1910	3027	4067	4638	6767	8434	10159
01/24 - 01/30	161	772	15676	14827	320	3135	5198	6679	7589	9481	10745	12513
01/31 - 02/06	161	1079	16650	9970	305	3443	4067	5265	6265	8216	10264	14181
02/07 - 02/13	161	1807	11884	398	4455	6414	8513	11349	15188	16306	17003	15095
02/14 - 02/20	161	1127	21600	10987	431	2863	5287	7381	9030	10824	12922	15431
02/21 - 02/27	161	1400	12290	20107	462	2725	6576	8378	10972	13028	15637	17441

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT MADISON, WIS.  
 (STATION NO. 14837) JUL, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER OBS.	MINIMUM RADIALION						MAXIMUM RADIALION						STD OF MEAN RADIALION						RECEIVING AT LEAST THE INDICATED AMOUNT					
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200					
03/01 - 03/07	161	959	19212	10835	418	2872	4640	7187	9695	11877	13987	14994	16067	16650	17238	17714	18523	19065	19605	19923					
03/08 - 03/14	161	1372	21181	12187	435	4292	5743	7629	10239	13249	15130	16511	16511	16511	16511	16511	16511	16511	16511	16511					
03/15 - 03/21	161	1955	21164	13317	452	4747	7819	9615	11536	14224	16344	18512	19187	19187	19187	19187	19187	19187	19187	19187					
03/22 - 03/28	161	1555	22813	14227	480	4770	7814	10481	12929	14061	17614	19182	20050	20672	20672	20672	20672	20672	20672	20672					
03/29 - 04/04	161	1314	24253	13887	527	3572	6812	9349	11881	13951	16929	19307	20607	21909	21909	21909	21909	21909	21909	21909					
04/05 - 04/11	161	2458	25620	16156	531	6300	8741	11573	14997	16609	19532	21894	22958	23933	23933	23933	23933	23933	23933	23933					
04/12 - 04/18	161	1180	26548	16473	599	5593	7571	11498	13710	17819	21490	24191	24857	24857	24857	24857	24857	24857	24857	24857					
04/19 - 04/25	161	1235	27552	16552	627	5514	8294	10549	13047	16978	21490	23784	24990	25943	25943	25943	25943	25943	25943	25943					
04/26 - 05/02	161	2404	28026	16985	633	4965	7427	12218	14123	18418	21081	23885	25513	26536	26536	26536	26536	26536	26536	26536					
05/03 - 05/09	161	1659	29788	19140	583	6745	11808	15311	18532	20690	22865	24621	25976	27296	27296	27296	27296	27296	27296	27296					
05/10 - 05/16	161	1800	29362	19520	650	6669	9868	14801	18583	22016	23993	26360	27476	28267	28267	28267	28267	28267	28267	28267					
05/17 - 05/23	161	2080	31593	20719	622	7384	12605	16637	20537	22913	24741	26318	28115	28924	28924	28924	28924	28924	28924	28924					
05/24 - 05/30	161	2275	30922	19756	632	8281	10695	13933	19209	21087	23321	26392	27883	29114	29114	29114	29114	29114	29114	29114					
05/31 - 06/06	161	2155	32803	21849	554	11369	18074	13636	17427	20240	23724	25948	27029	28043	29379	29379	29379	29379	29379	29379					
06/07 - 06/13	161	3683	31231	21381	572	9703	14672	17030	20040	23496	25316	27348	28091	29059	29059	29059	29059	29059	29059	29059					
06/14 - 06/20	161	5770	31914	22045	518	12354	14764	17936	21371	23122	25392	26981	27814	29639	29639	29639	29639	29639	29639	29639					
06/21 - 06/27	161	3287	32227	22584	581	10130	14781	18547	23291	25123	26685	27987	29127	29860	29860	29860	29860	29860	29860	29860					
06/28 - 07/04	161	3312	32502	22040	554	10198	19054	15099	20307	23859	25700	26975	28293	29502	29502	29502	29502	29502	29502	29502					
07/05 - 07/11	168	6249	31463	22894	463	13824	16222	20000	22974	24716	25922	27171	28155	29253	29253	29253	29253	29253	29253	29253					
07/12 - 07/18	168	4506	31400	21949	486	10708	16291	19911	21664	24101	24976	26412	27432	28187	28187	28187	28187	28187	28187	28187					
07/19 - 07/25	168	6232	31712	22521	458	12595	17008	20828	23118	24809	25467	26447	27137	28096	28096	28096	28096	28096	28096	28096					
07/26 - 08/01	168	2755	30359	20480	468	11157	14384	17756	20562	22455	23499	25594	26661	26661	26661	26661	26661	26661	26661	26661					
08/02 - 08/08	168	5371	28299	20241	445	10665	14956	16807	20595	21687	23324	24330	25355	26228	26228	26228	26228	26228	26228	26228					
08/09 - 08/15	168	5168	28371	20689	406	12380	15524	18812	20817	22117	23113	24282	25068	25961	26950	26950	26950	26950	26950	26950					
08/16 - 08/22	168	4328	25670	19218	413	10727	14411	16653	19563	21488	22021	23037	23530	24447	25447	25447	25447	25447	25447	25447					
08/23 - 08/29	168	4278	27294	17912	455	7599	11243	15440	18635	20263	21221	21894	22885	23674	23674	23674	23674	23674	23674	23674					
08/30 - 09/05	168	2688	24958	17301	406	85117	12182	15371	16876	18776	19958	20896	21821	22744	22744	22744	22744	22744	22744	22744					
09/06 - 09/12	168	1364	23498	16410	438	6976	9305	14911	17523	18734	19411	20211	20780	21543	21543	21543	21543	21543	21543	21543					
09/13 - 09/19	168	926	21954	13713	465	4213	7292	10277	12504	15283	16938	18454	19424	20224	20224	20224	20224	20224	20224	20224					
09/20 - 09/26	168	2010	20422	13121	398	4929	7574	9496	12323	14083	15483	16144	17144	18155	18155	18155	18155	18155	18155	18155					
09/27 - 10/03	168	2003	18924	13251	352	5831	8872	10913	12418	15232	16144	16729	17248	17733	17733	17733	17733	17733	17733	17733					
10/04 - 10/10	168	472	19033	11612	373	3871	6837	8101	11167	13764	14647	15349	15973	16448	16448	16448	16448	16448	16448	16448					
10/11 - 10/17	168	1271	17055	11115	317	4134	6620	8869	11162	13136	13669	14165	14458	14862	14862	14862	14862	14862	14862	14862					
10/18 - 10/24	168	218	14879	9362	318	2839	4920	6488	9087	10541	11986	12334	13746	13746	13746	13746	13746	13746	13746	13746					
10/25 - 10/31	168	544	13539	8016	292	2313	3860	4979	6463	7397	8365	9167	11145	11873	12417	12417	12417	12417	12417	12417	12417				
11/01 - 11/07	168	34	12449	6626	277	1765	2463	3613	5128	6958	8365	9518	10458	11082	11755	11755	11755	11755	11755	11755	11755				
11/08 - 11/14	168	145	11014	6361	244	1869	2769	3978	5779	6664	7785	8785	9644	10284	10284	10284	10284	10284	10284	10284					
11/15 - 11/21	168	324	9889	5099	220	1543	2264	3060	3450	4429	5732	7274	8278	9235	9235	9235	9235	9235	9235	9235					
11/22 - 11/28	168	4982	9009	4982	209	1173	1981	2882	3862	4848	6162	7095	8007	8426	8426	8426	8426	8426	8426	8426					
11/29 - 12/05	168	534	9021	4633	197	1352	1947	2627	3288	4486	5551	6740	7607	7911	7911	7911	7911	7911	7911	7911					
12/06 - 12/12	168	12	8895	4283	188	1097	1710	2397	3081	4134	5286	6221	6771	7455	7455	7455	7455	7455	7455	7455					
12/13 - 12/19	168	197	8260	4611	168	1361	244	1869	2769	3978	5779	6664	7785	8785	9644	10284	10284	10284	10284	10284	10284				
12/20 - 12/26	168	34	8082	4223	174	1121	1601	2374	3490	4210	5142	5839	6736	7194	7194	7194	7194	7194	7194	7194					
12/27 - 01/02	161	482	7903	4583	175	1543	2307	2790	3666	4549	5491	6310	7019	7375	7375	7375	7375	7375	7375	7375					
01/03 - 01/09	161	663	8241	5430	175	1900	2853	4024	5119	6092	6740	7607	7911	7911	7911	7911	7911	7911	7911	7911					
01/10 - 01/16	161	708	9214	5756	178	2283	3414	4156	5286	6221	6771	7455	7455	7455	7455	7455	7455	7455	7455	7455					
01/17 - 01/23	161	544	9664	5767	223	1585	2751	3631	4778	6157	7600	8244	8748	9022	9022	9022	9022	9022	9022	9022					
01/24 - 01/30	161	392	11104	6521	235	2109	3297	4184	5817	7070	7999	8968	9612	9976	10713	11135	11135	11135	11135	11135	11135				
01/31 - 02/06	161	1325	11873	7650	234	3337	4337	5338	5706	7145	8176	8980	9902	10713	11135	11135	11135	11135	11135	11135					
02																									

SOLAR RADIATION IN KILOJODULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT MEDFORD, OR.  
 (STATION NO. 242251) DEC, 1951 - DEC, 1975

CLIMATIC WEEK	NUMBER DAYS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN RADIAITION	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						20	80	70	60	50	(MEDIAN)
03/01 - 03/07	16.8	1619	16857	10481	329	4784	6163	7218	8348	10124	12032
03/08 - 03/14	16.8	1375	18749	11974	332	5811	7465	9292	10883	12663	14003
03/15 - 03/21	16.8	2753	20723	13442	361	6504	8595	9628	12363	14240	15537
03/22 - 03/28	16.8	4212	21202	14602	397	6633	9052	11095	13190	15797	17229
03/29 - 04/04	16.8	3334	23601	16427	395	8463	11542	12607	15149	17269	19134
04/05 - 04/11	16.8	5108	25860	17522	387	10138	12517	14253	16671	18744	20744
04/12 - 04/18	16.8	5938	26212	17932	418	10051	12220	14239	16248	18860	20557
04/19 - 04/25	16.8	5943	27360	19642	387	12398	14791	16465	18699	20676	22044
04/26 - 05/02	16.8	3957	28737	20737	456	11656	14237	17024	19720	22432	25774
05/03 - 05/09	16.8	5295	28353	21304	479	11150	14323	18130	20548	23207	25087
05/10 - 05/16	16.9	6755	30444	23303	464	13412	16794	20802	24196	25740	26989
05/17 - 05/23	16.8	3743	30365	23263	477	13587	17357	19504	22202	25817	27827
05/24 - 05/30	16.8	5547	30719	24696	488	14018	18767	21941	24662	28653	29589
05/31 - 06/06	16.8	4515	31366	24665	511	13462	17813	21941	25677	27887	29666
06/07 - 06/13	16.8	6508	31333	24854	474	14523	18697	21133	24968	26621	28704
06/14 - 06/20	16.8	8900	31634	26727	437	16642	22506	26074	28405	29437	30094
06/21 - 06/27	16.8	6895	31720	26413	452	16664	21709	24678	27191	29571	30291
06/28 - 07/04	16.8	7180	31543	27765	373	20669	26800	27832	29524	30082	30373
07/05 - 07/11	16.8	10108	31455	28485	303	23187	27455	29159	29898	30085	30286
07/12 - 07/18	16.8	10735	32763	28389	288	24421	27658	29396	29702	29887	30137
07/19 - 07/25	16.8	12229	30207	28320	202	25987	28230	28771	28996	29126	29414
07/26 - 08/01	16.8	6250	29666	26918	317	22123	26374	27939	28173	28414	28543
08/02 - 08/08	16.8	7588	28656	26258	267	21549	26249	26991	27354	27504	27619
08/09 - 08/15	16.8	4798	27715	25461	245	21569	26140	26263	26435	26601	26751
08/16 - 08/22	16.8	4769	27257	23297	314	17262	21263	23609	24635	25293	25968
08/23 - 08/29	16.8	5765	25559	21692	335	14230	19423	22046	23042	23632	23896
08/30 - 09/05	16.8	7128	24103	20998	265	15073	19579	21500	21936	22313	22555
09/06 - 09/12	16.8	6554	22588	19426	246	14946	1725	20516	20516	21301	21585
09/13 - 09/19	16.8	1743	21040	17184	331	9289	14125	17007	18504	19209	19501
09/20 - 09/26	16.8	3030	19963	16836	265	11336	15709	17407	17951	18270	18452
09/27 - 10/03	16.8	3967	18828	15360	277	8837	13338	15969	16679	17012	17132
10/04 - 10/10	16.8	2191	17081	12476	307	6177	7746	10227	12112	14054	15104
10/11 - 10/17	16.8	1321	15598	11645	264	5478	8352	10673	11562	12812	13745
10/18 - 10/24	16.8	1924	14459	10064	237	5237	6825	8246	9707	10606	11736
10/25 - 10/31	16.8	2042	13315	8712	209	4995	5919	7324	8156	8952	9672
11/01 - 11/07	16.8	1613	12022	7402	223	3509	4448	4997	6445	7533	8389
11/08 - 11/14	16.8	1001	10620	5586	181	2669	3418	4117	4629	5100	5749
11/15 - 11/21	16.8	716	10008	5520	168	3048	3478	4016	4677	5253	5836
11/22 - 11/28	16.8	690	8971	4614	160	1960	2703	3157	3647	4139	4829
11/29 - 12/05	16.8	572	8188	4105	142	1865	2487	2874	3081	3425	3717
12/06 - 12/12	16.8	375	9297	4251	145	2031	2368	2999	3353	3647	4043
12/13 - 12/19	16.8	761	7423	3623	131	1547	2109	2545	2881	3207	3565
12/20 - 12/26	16.8	328	8181	3656	119	1710	2340	2873	3196	3289	3727
12/27 - 01/03	16.8	723	7902	3911	131	1938	2387	3033	3274	3516	4050
01/03 - 01/09	16.8	583	8101	4038	146	1865	2487	2874	3185	3607	3985
01/10 - 01/16	16.8	1221	9588	4113	138	2097	2517	2999	3353	3647	4043
01/17 - 01/23	16.8	444	9791	4747	181	1964	2620	3100	3786	4026	4528
01/24 - 01/30	16.8	621	10971	5515	180	2792	3331	3851	4363	5068	5543
01/31 - 02/06	16.8	1352	11510	6367	197	3138	3902	4685	5250	5869	6654
02/07 - 02/13	16.8	1296	12843	8028	228	3874	5139	6328	7038	7847	8706
02/14 - 02/20	16.8	439	14027	8248	254	3832	5221	6076	6959	8043	9031
02/21 - 02/27	16.8	2093	15844	10159	272	4799	6674	8234	9419	10432	11612

Table 19.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT MIAMI, FL.  
 (STATION NO. 12839) JUL, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER DAS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	RECEIVING AT LEAST THE INDICATED AMOUNT					
						2Q	3Q	4Q	5Q	(MEDIAN)	1Q
03/01 - 03/07	161	4119	22134	16982	306	11617	14172	15699	16895	17944	18775
03/08 - 03/14	161	3458	23277	18016	322	12346	14659	16594	18080	19270	20016
03/15 - 03/21	161	1676	24685	18757	385	10818	15099	17499	19348	20333	21383
03/22 - 03/28	161	3975	24823	18751	374	11509	15690	17284	18721	19774	21946
03/29 - 04/04	161	2769	25797	19708	362	13072	15840	17151	19660	20903	21118
04/05 - 04/11	161	3305	26429	20321	387	12526	16446	18812	20652	21860	21796
04/12 - 04/18	161	4036	27655	21464	333	15286	17920	19927	21331	22446	22699
04/19 - 04/25	161	5974	27954	21444	322	15672	18283	20021	21164	22041	22443
04/26 - 05/02	161	5010	28348	21536	358	15820	19333	20497	21496	22331	23366
05/03 - 05/09	161	3129	28063	21315	381	12643	17618	20136	21413	22279	22970
05/10 - 05/16	161	8257	29264	21745	375	15393	18250	19345	21189	22694	23665
05/17 - 05/23	161	2536	29543	20896	319	13804	16599	18864	20547	21014	21014
05/24 - 05/30	161	5973	28205	19897	416	11936	15186	17475	18881	20547	24379
05/31 - 06/06	161	5432	29588	19255	452	10793	13853	16411	17823	20264	22893
06/07 - 06/13	161	5434	27959	19137	436	12139	13873	15949	17882	20056	21626
06/14 - 06/20	161	3718	28484	19286	443	11590	13468	16009	17897	20329	22778
06/21 - 06/27	161	5402	27121	19659	384	12898	14933	17245	18563	19828	21374
06/28 - 07/04	161	4840	27063	20223	384	12736	16499	18452	19932	21303	22482
07/05 - 07/11	168	6637	28329	19960	331	13673	18042	19586	20471	21851	22758
07/12 - 07/18	168	6754	27249	20269	321	13976	16735	18843	20085	20993	22930
07/19 - 07/25	168	1431	26202	19983	333	13581	16451	18795	20104	21003	21897
07/26 - 08/01	168	9073	26542	19123	298	13379	16066	17837	19403	20593	21516
08/02 - 08/08	168	6143	25936	19183	300	13484	15927	17615	18835	19959	21073
08/09 - 08/15	168	5883	26995	18342	277	13092	15120	16639	18110	18876	21885
08/16 - 08/22	168	8191	23647	18240	243	13584	15257	16352	17663	18688	19443
08/23 - 08/29	168	9119	23488	18368	242	13111	16421	17226	18111	19129	19661
08/30 - 09/05	168	5779	24067	17253	310	10928	13996	17264	18038	18592	19943
09/06 - 09/12	168	4504	23751	16476	325	10639	12559	13968	15679	17048	17680
09/13 - 09/19	168	4290	23358	16769	323	10192	13072	15311	16494	17943	18862
09/20 - 09/26	168	4781	22815	15854	331	9249	12146	14272	15551	16742	17831
09/27 - 10/03	168	5287	21233	16088	277	10404	12974	14545	16134	17007	17746
10/04 - 10/10	168	5296	21022	15411	272	9841	12528	13914	14776	15925	16992
10/11 - 10/17	168	2183	21009	15126	317	8491	11809	13944	15718	16574	17225
10/18 - 10/24	168	4427	19627	14260	297	8081	10632	12190	14111	15023	15953
10/25 - 10/31	168	3029	18836	14955	277	6681	11286	12754	14111	15157	16897
11/01 - 11/07	168	5044	17745	14047	223	9253	11783	13217	13928	14823	15467
11/08 - 11/14	168	3850	16914	12656	237	7953	10366	11495	12365	13362	14002
11/15 - 11/21	168	8458	16442	12444	214	8485	11019	11488	12427	13131	13648
11/22 - 11/28	168	2590	16726	12040	225	7890	9816	10922	11864	12534	13350
11/29 - 12/05	168	4427	15252	11660	205	7622	9527	10528	11593	12137	12756
12/06 - 12/12	168	2548	15195	11610	204	7402	9726	10593	11379	12380	13001
12/13 - 12/19	168	2240	15158	11502	211	7671	9394	10388	11540	12227	12778
12/20 - 12/26	168	1703	15673	11425	223	7236	9608	10382	11231	12078	12647
12/27 - 01/02	161	1900	15147	11627	208	7561	9869	10646	11657	12094	12653
01/03 - 01/09	161	2449	15682	11337	247	6611	8493	9879	11061	12278	12811
01/10 - 01/16	161	1130	16301	11722	278	6329	8538	10513	12014	12825	13576
01/17 - 01/23	161	1642	17104	11694	267	6267	8878	10174	11327	12210	13063
01/24 - 01/30	161	2843	17619	13000	265	8058	10182	11633	12999	13691	14477
01/31 - 02/06	161	2416	18969	13449	282	8207	10342	12243	13171	14062	14949
02/07 - 02/13	161	2858	20630	14690	269	9977	12128	13148	14443	15408	16019
02/14 - 02/20	161	3267	20588	15352	290	9791	13144	14222	15029	16029	16897
02/21 - 02/27	161	3877	15785	316	9612	12411	14345	15708	16303	17464	18459

Table 20.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT NASHVILLE, TN.  
(STATION NO. 13897) JUL 1952 - DEC 1975

CLIMATIC WEEK	NUMBER DAYS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	90	80	70	60	(MEDIAN)	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT			
											10	20	30	40
03/01 - 03/07	161	900	19925	11128	482	2835	4456	6034	8556	11256	14016	16540	17841	18868
03/08 - 03/14	161	591	20875	11934	498	3086	4840	6867	9349	12154	14907	17146	18928	19654
03/15 - 03/21	161	1194	22661	12965	536	3667	4857	7596	10728	13997	16341	19042	20123	21029
03/22 - 03/28	161	1394	23161	14431	538	4300	6563	8515	12573	16348	18201	19823	21435	22245
03/29 - 04/04	161	2095	25289	15425	580	3805	6533	6967	13775	17274	19994	22048	22704	23165
04/05 - 04/11	161	1827	25431	16106	584	4533	7399	11214	14272	18370	20266	21996	23562	24420
04/12 - 04/18	161	2551	26943	17824	551	6627	10359	13635	16955	19768	21701	23368	24604	25458
04/19 - 04/25	161	2288	27139	18890	534	8155	12241	15805	18244	20420	22409	24253	25505	26235
04/26 - 05/02	161	2375	28117	18461	559	7383	10407	13379	15633	19895	21114	24889	25948	27118
05/03 - 05/09	161	4138	29359	20702	551	8783	13198	17973	21261	23545	24329	25393	26996	27635
05/10 - 05/16	161	3367	29407	19131	592	7793	10316	13897	18543	21334	22817	24994	26512	27503
05/17 - 05/23	161	3276	30135	21765	501	11883	15662	19665	22020	23792	24990	25985	27333	28260
05/24 - 05/30	161	4423	30835	21792	489	12300	16626	19302	21251	21700	23119	25842	28465	29169
05/31 - 06/06	161	4623	30868	21697	493	11223	16263	19421	21719	23292	24760	25686	27103	28339
06/07 - 06/13	161	4518	30548	21672	476	12007	16617	18441	20680	22968	24785	25939	27355	28123
06/14 - 06/20	161	3455	31008	22919	492	13249	18614	21493	23404	24617	25806	26984	27576	28845
06/21 - 06/27	161	5545	34446	22398	422	13950	17140	20666	22431	23662	25002	25639	26712	27833
06/28 - 07/04	161	8960	30092	22843	396	15111	18731	20840	22476	24062	25715	26355	26867	28019
07/05 - 07/11	168	7760	31199	22160	402	14562	17614	19491	21357	23198	24369	25556	26698	28164
07/12 - 07/18	168	2430	30083	21404	417	13628	17075	18371	20609	22394	24034	25034	26229	27302
07/19 - 07/25	168	4140	28818	20579	402	12991	15778	18601	21688	21609	23134	23989	25346	26078
07/26 - 08/01	168	7168	28652	20873	389	12730	16426	19120	20847	22346	23670	24306	24983	25656
08/02 - 08/08	168	4746	27667	21049	343	13328	18198	19973	21242	22079	22846	23700	24467	25508
08/09 - 08/15	168	3920	27833	19454	403	1526	14670	16797	19278	20797	22156	23104	24045	24828
08/16 - 08/22	168	3864	26620	19042	378	11532	15366	16933	18940	20198	21332	21956	22998	24313
08/23 - 08/29	168	2430	30083	21404	417	13628	17075	18371	20609	22394	24034	25034	26229	27302
08/30 - 09/05	168	2824	24324	18004	362	11452	12859	15651	17441	19065	20344	21528	22341	23409
09/06 - 09/12	168	3314	24094	16968	417	7764	11433	15546	17234	18948	19501	20825	211729	22549
09/13 - 09/19	168	3418	22514	15427	415	6456	9806	12798	14800	16925	18291	19524	20609	21199
09/20 - 09/26	168	1519	21729	14863	417	6129	9856	12478	14980	16633	17593	18890	19973	20449
09/27 - 10/03	168	1384	20404	14269	418	4929	9010	12071	14683	16411	17273	18196	19092	19474
10/04 - 10/10	168	1112	19039	13505	378	5207	7987	11291	13783	15448	17097	17716	18228	18740
10/11 - 10/17	168	1104	18082	13128	335	6046	9125	11572	13446	14652	15548	16081	16802	17226
10/18 - 10/24	168	709	17381	12488	358	4736	8063	11409	13730	14638	15362	15736	16040	16368
10/25 - 10/31	168	1184	16510	10562	338	3402	5263	7819	10521	12220	12885	14001	14611	15039
11/01 - 11/07	168	602	15159	9319	327	3034	4524	6243	8578	10597	12747	13942	14744	15395
11/08 - 11/14	168	108	14116	8709	329	2352	3584	5301	8279	10463	11399	12364	12698	13195
11/15 - 11/21	168	683	12868	7746	311	1840	3022	4456	6616	8789	10474	11409	11723	12217
11/22 - 11/28	168	664	12096	6612	278	1496	3279	5777	6421	7914	9490	10684	11231	11638
11/29 - 12/05	168	439	11902	7215	264	1798	3203	4956	6542	8309	9125	10581	10845	11111
12/06 - 12/12	168	177	11290	5816	271	1074	1873	2789	4216	5931	6961	8852	9711	10317
12/13 - 12/19	168	303	10586	6001	267	1442	2049	2979	4323	5781	6181	9370	9833	10123
12/20 - 12/26	168	616	10972	5527	263	1285	1841	2615	3317	5186	7074	8271	9568	9972
12/27 - 01/02	161	95	10733	5573	269	988	1747	2782	3740	5306	7371	8343	9313	10069
01/03 - 01/09	161	293	11170	6264	280	1133	1954	3399	4751	6675	8090	9022	10184	10558
01/10 - 01/16	161	276	12296	6668	297	1282	3615	5473	6855	8958	9906	10682	11111	11588
01/17 - 01/23	161	503	12692	6272	316	1349	1896	2669	4102	5529	8054	9594	10992	11588
01/24 - 01/30	161	78	13107	7138	333	1460	2287	3210	5700	7383	9049	10577	11889	12414
01/31 - 02/06	161	287	14677	7328	375	1412	2310	3187	4649	6127	8553	12430	12892	13477
02/07 - 02/13	161	277	15784	9232	374	2270	3569	6055	8168	9950	12015	13254	13919	14692
02/14 - 02/20	161	917	17603	9894	391	3073	4449	5317	8317	10845	14115	15385	16155	16695
02/21 - 02/27	161	1215	18370	10599	461	2217	3877	5543	8807	12146	14346	15695	16695	17261

Table 21.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT NEW YORK, NY.  
STATION NO. 947281 JUL, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER OBS.	MINIMUM RADIATION						MAXIMUM RADIATION						MEAN RADIATION						STD OF MEAN						RECEIVING IN PERCENT OF AT LEAST THE INDICATED AMOUNT															
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q												
03/01 - 03/07	161	62.9	19018	9463	416	1868	5213	7547	10013	11875	13050	14457	16425	2923	10146	12651	14681	16053	16866	18099	13736	15336	16425	17585	19085	20021	20759	20685	21766												
03/08 - 03/14	161	350	21484	11035	495	1741	6253	8253	10146	12651	14681	16053	16866	2973	10146	12651	14681	16053	16866	18099	13736	15336	16425	17585	19085	20021	20759	20685	21766												
03/15 - 03/21	161	324	21814	11738	497	14215	506	325	7199	11289	14507	16418	17691	8197	11424	15177	16848	19002	16866	18099	13736	15336	16425	17585	19085	20021	20759	20685	21766												
03/22 - 03/28	161	210	22453	14215	506	325	7199	11289	14507	16418	17691	8197	11424	15177	16848	19002	16866	18099	13736	15336	16425	17585	19085	20021	20759	20685	21766														
03/29 - 04/04	161	505	23586	13587	546	2984	6058	9178	11424	15177	16848	19002	16866	2788	7452	11994	15120	16342	17664	19924	21719	23133	22738	23892	20990	19794	19225	20021	20759	20685	21766										
04/05 - 04/11	161	732	24844	14879	560	3882	6747	12252	15663	16663	17251	19794	20990	14869	11881	14869	17197	19225	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766										
04/12 - 04/18	161	676	25394	15788	581	3805	7596	13011	14869	17197	19225	20021	20759	15991	601	3805	7596	13011	14869	17197	19225	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766							
04/19 - 04/25	161	1147	28924	15991	601	3805	7596	13011	14869	17197	19225	20021	20759	16522	658	4050	6502	13708	15509	18533	21364	22858	24926	25821	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766				
04/26 - 05/02	161	478	28765	16522	658	4050	6502	13708	15509	18533	21364	22858	24926	25821	29587	17708	654	8465	13402	17922	19875	22857	24043	25495	26152	17708	654	8465	13402	17922	19875	22857	24043	25495	26152						
05/03 - 05/09	161	952	29587	17708	654	7043	10856	14739	17953	20019	21953	23538	25354	13012	18383	589	10633	10633	11411	18618	21437	22800	24663	25695	27388	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
05/10 - 05/16	161	1309	18383	589	10633	11411	18618	21437	22800	24663	25695	27388	20021	20759	19015	617	5681	11994	15120	16342	17664	19924	21719	23133	22738	23892	20990	19794	19225	20021	20759	20685	21766								
05/17 - 05/23	161	1661	29810	19015	617	5681	11994	15120	16342	17664	19924	21719	23133	22738	23892	19574	647	6549	10418	15936	19160	21717	23773	25432	26905	28446	20990	19794	19225	20021	20759	20685	21766								
05/24 - 05/30	161	1649	32934	19574	647	6549	10418	15936	19160	21717	23773	25432	26905	28446	20990	19011	19011	19011	19325	2084	22830	24011	25147	26379	27631	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
05/31 - 06/06	161	161	2747	19096	524	1730	14082	17130	19740	20607	22362	24362	26362	28362	19562	614	8141	10510	14748	19394	22362	23873	24866	26247	27886	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
06/07 - 06/13	161	2232	30720	19562	614	8141	10510	14748	19394	22362	23873	24866	26247	27886	17708	592	7365	11544	15101	17844	21320	23115	25002	26158	27851	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
06/14 - 06/20	161	2874	33012	19321	598	7043	10856	14739	17953	20019	21953	23538	25354	18383	589	10633	11411	18618	21437	22800	24663	25695	27388	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766					
06/21 - 06/27	161	1666	31777	18303	637	6041	10633	11411	18618	21437	22800	24663	25695	27388	18303	637	6041	10633	11411	18618	21437	22800	24663	25695	27388	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
06/28 - 07/04	161	2016	29883	20571	524	9892	14469	18043	20444	22233	23960	24757	26370	27627	19096	524	9892	14469	18043	20444	22233	23960	24757	26370	27627	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
07/05 - 07/11	161	1901	30777	19884	514	9837	14300	17520	18824	2084	22545	24467	25765	27249	19884	514	9837	14300	17520	18824	2084	22545	24467	25765	27249	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
07/12 - 07/18	168	2218	29323	19322	533	7257	12266	16091	19325	21740	23832	25831	27831	29831	19322	533	7257	12266	16091	19325	21740	23832	25831	27831	29831	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
07/19 - 07/25	168	950	28347	18217	516	7493	11481	15298	17481	19394	21277	23377	25439	27439	18217	516	7493	11481	15298	17481	19394	21277	23377	25439	27439	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
07/26 - 08/01	168	2354	28029	17775	465	7618	12392	15130	17619	19192	20980	22166	24942	26942	17775	465	7618	12392	15130	17619	19192	20980	22166	24942	26942	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
08/02 - 08/08	168	1802	27241	17402	521	5579	10425	14855	17374	19618	21740	23832	25832	27832	17402	521	5579	10425	14855	17374	19618	21740	23832	25832	27832	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
08/09 - 08/15	168	1319	28202	17244	468	7572	11547	15171	17646	19646	21740	23832	25832	27832	17244	468	7572	11547	15171	17646	19646	21740	23832	25832	27832	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
08/16 - 08/22	168	1185	27140	16606	454	7095	11427	14397	15791	18028	20947	22947	24947	26947	16606	454	7095	11427	14397	15791	18028	20947	22947	24947	26947	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
08/23 - 08/29	168	1649	24604	16496	444	6936	6514	9145	11866	12955	13893	14749	15650	16143	24604	350	6936	6514	9145	11866	12955	13893	14749	15650	16143	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766			
08/30 - 09/05	168	1607	23532	15485	444	6094	3660	8262	11116	15171	16846	18398	20994	22994	24942	20994	311	220+	5330	7269	8992	10644	11741	12549	13126	13713	14093	14619	20021	20759	20685	21766	22738	23892	20990	19794	19225	20021	20759	20685	21766
09/06 - 09/12	168	1065	25110	15074	452	6428	3761	6909	9801	13531	16291	18417	19517	21740	23832	25832	27832	15074	452	6428	3761	6909	9801	13531	16291	18417	19517	21740	23832	25832	27832	20021	207								

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT N. OMAHA, NB.  
 (STATION NO. 94918) JUN, 1952 - DEC, 1975

CLIMATIC WEEK	NUMBER OBS	RECEIVING AT LEAST THE INDICATED AMOUNT						(MEDIAN)	10
		MINIMUM RADIATION	MAXIMUM RADIATION	MEAN	STD OF MEAN	2Q	8Q		
1Q	50	50	50	50	50	50	50		
03/01 - 03/07	126	2299	19395	11882	461	3573	6188	10804	14518
03/08 - 03/14	126	1471	19991	479	6767	9574	11746	13485	14561
03/15 - 03/21	126	1435	21795	14696	488	6012	8868	11943	13919
03/22 - 03/28	126	1237	15187	541	5363	8168	11564	15535	17401
03/29 - 04/04	126	1234	22884	488	4484	8212	11615	13597	15650
04/05 - 04/11	126	1593	24581	603	603	7167	14073	17428	17548
04/12 - 04/18	126	26261	17566	603	6415	9784	12742	18277	21193
04/19 - 04/25	126	1678	18097	683	683	7167	12742	18277	21193
04/26 - 05/02	126	18915	27810	648	6290	11950	15901	19343	21073
05/03 - 05/09	126	1383	30054	18865	723	5749	10243	14203	18363
05/10 - 05/16	126	2837	29150	19844	719	5432	12302	16564	18923
05/17 - 05/23	126	2060	30072	21124	709	8491	13851	16538	20456
05/24 - 05/30	126	2949	30915	21586	671	9377	13970	17835	21936
05/31 - 06/06	126	999	32485	21902	735	9404	12730	18739	22358
06/07 - 06/13	133	2606	32629	22380	668	10097	12101	16997	21134
06/14 - 06/20	133	6743	32227	24660	521	15295	18848	22394	24981
06/21 - 06/27	133	3432	32364	24774	559	13752	20547	22272	25032
06/28 - 07/04	133	3511	31767	25330	526	16200	21972	24333	25882
07/05 - 07/11	133	5700	31180	24571	537	14557	18797	22327	25784
07/12 - 07/18	133	5576	23357	23980	550	12528	18887	22752	24700
07/19 - 07/25	133	3675	32181	23477	596	11034	18286	22448	24464
07/26 - 08/01	133	6087	31290	22444	565	11279	15813	20016	23104
08/02 - 08/08	133	7454	30568	22590	499	12725	16361	20659	23444
08/09 - 08/15	133	7899	27660	22233	644	12199	18039	21284	23014
08/16 - 08/22	133	2900	26830	20250	539	9882	14603	18569	21114
08/23 - 08/29	133	2773	26172	20291	480	11790	15657	18324	21513
08/30 - 09/05	133	2453	25805	17926	525	6850	11793	15125	17800
09/06 - 09/12	133	2847	24325	17510	576	9756	15417	18616	21160
09/13 - 09/19	133	1872	23736	14207	568	3963	6418	10153	13330
09/20 - 09/26	133	1952	20966	14248	522	5041	7242	10573	13192
09/27 - 10/03	133	1501	20690	14524	464	4999	9166	12075	16104
10/04 - 10/10	133	1248	18683	13197	472	4066	4355	6802	11002
10/11 - 10/17	133	12120	17720	12116	406	4355	7108	10290	12281
10/18 - 10/24	133	1057	16353	11276	382	3431	6374	10414	11785
10/25 - 10/31	133	715	15201	9616	372	2386	5169	7460	8794
11/01 - 11/07	133	794	15168	8238	363	2228	4353	7305	8944
11/08 - 11/14	133	647	12763	7790	317	2060	3974	5084	6980
11/15 - 11/21	133	656	11279	6678	292	1885	4062	5939	7167
11/22 - 11/28	133	1083	10842	6703	257	1883	3575	46559	6188
11/29 - 12/05	133	657	10033	6277	246	1470	3338	4430	6193
12/06 - 12/12	133	316	5758	5758	234	1678	2583	3521	5034
12/13 - 12/19	133	712	9175	5946	216	1726	4279	5607	6279
12/20 - 12/26	133	655	9148	5535	217	1933	2833	3500	6460
12/27 - 01/02	126	751	9199	5936	212	1024	3304	4274	5330
01/03 - 01/09	126	1545	9945	7082	201	3366	4494	6193	7474
01/10 - 01/16	126	862	6652	233	2150	3620	5547	6502	7324
01/17 - 01/23	126	1119	10681	7094	259	8661	8661	9117	9866
01/24 - 01/30	126	12136	8171	655	264	3599	5225	6284	8462
01/31 - 02/06	126	1076	12981	8517	309	3296	4689	7459	10469
02/07 - 02/13	126	16213	9371	340	2727	5018	7459	9241	10375
02/14 - 02/20	126	701	15792	10323	351	4429	6618	8339	9743
02/21 - 02/27	126	1142	11480	1142	439	3669	5494	8124	11166

SOLAR RADIATION IN KILOJOUULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT PHOENIX, AR.  
 (STATION NO. 23183)  
 JUL. 1952 - DEC. 1975

CLIMATIC WEEK	NUMBER DAYS	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT									
		MINIMUM RADIALION	MAXIMUM RADIALION	MEAN RADIALION	STD OF MEAN RADIALION	20	30	40	50	60	(MEDIAN)
03/01 - 03/07	161	4100	22309	18271	330	11478	15176	18488	19484	20160	20399
03/08 - 03/14	161	5749	23609	19259	347	11342	18952	16151	22395	21049	21330
03/15 - 03/21	161	4390	24908	21197	321	14255	19553	20832	22361	21340	22812
03/22 - 03/28	161	4344	26702	22303	316	16139	19507	21313	24279	24840	23877
03/29 - 04/04	161	4263	27709	23925	297	18668	21430	23903	24851	25540	25475
04/05 - 04/11	161	10369	28972	2556	278	19544	24520	26086	26619	25796	25067
04/12 - 04/18	161	12100	30082	26131	280	2194	24993	27083	27916	27009	26376
04/19 - 04/25	161	5086	31765	27801	319	22526	27009	28494	28957	29202	28934
04/26 - 05/02	161	13881	32968	29181	235	25105	28350	29826	30130	30421	29924
05/03 - 05/09	161	13232	32772	29392	276	25008	28292	29680	30325	30489	30098
05/10 - 05/16	161	5927	33204	30386	253	27390	30017	30748	31300	31497	30665
05/17 - 05/23	161	21672	33534	30946	185	28159	29875	30768	31468	31642	30779
05/24 - 05/30	161	15009	34231	30981	248	27169	30252	31273	31763	32141	31892
05/31 - 06/06	161	13426	37593	31032	247	27116	30242	31227	31692	32278	31893
06/07 - 06/13	161	11540	34324	31082	287	27949	30704	31557	31786	32253	31572
06/14 - 06/20	161	4294	34979	31438	268	29737	31177	31612	31757	32302	32053
06/21 - 06/27	161	14549	34038	30982	214	28836	30638	31262	31355	31539	32456
06/28 - 07/04	161	15155	33500	30206	225	26806	29114	30260	30864	30970	32462
07/05 - 07/11	168	14176	33335	28739	298	23254	26989	28499	29530	30156	30484
07/12 - 07/18	168	12019	31626	28593	229	23454	26669	28264	29180	29744	32258
07/19 - 07/25	168	9527	27571	27556	334	20807	25993	27817	29157	29555	30541
07/26 - 08/01	168	11078	31161	27020	308	21139	24628	26860	27856	28456	32974
08/02 - 08/08	168	7963	31481	26734	278	22012	24938	25785	27282	28028	32575
08/09 - 08/15	168	5015	29656	26425	269	22895	25208	26313	27359	27706	28666
08/16 - 08/22	168	11751	29704	25357	265	20589	23468	24891	26038	26557	31620
08/23 - 08/29	168	12185	28284	25491	201	21987	24352	25532	26140	26557	31076
08/30 - 09/05	168	9655	27403	24765	255	21813	23813	25245	25690	25937	30285
09/06 - 09/12	168	9413	26448	23586	253	18062	22868	24085	24622	24838	25066
09/13 - 09/19	168	8486	21298	22799	234	19056	23288	26313	27359	27706	29522
09/20 - 09/26	168	5132	25203	22208	210	20716	22114	22607	22784	22906	23335
09/27 - 10/03	168	5863	27585	20505	258	20589	23468	24891	26038	26557	27905
10/04 - 10/10	168	4422	21690	18379	238	15918	18727	19866	20266	20460	27116
10/11 - 10/17	168	3097	19259	18379	230	14782	18655	19113	19399	19746	21137
10/18 - 10/24	168	5416	19262	17025	193	13548	16335	17380	17753	17947	20090
10/25 - 10/31	168	4211	18338	15927	192	13700	15175	16228	16575	16724	18712
11/01 - 11/07	168	4048	14804	10808	187	11748	13881	14840	15405	15653	17369
11/08 - 11/14	168	2810	13551	10505	204	16964	19615	21045	21485	21642	16399
11/15 - 11/21	168	2884	16222	12563	204	8259	10787	12557	13436	13751	15219
11/22 - 11/28	168	1905	14262	11897	214	11220	10781	12485	12944	13140	14461
11/29 - 12/05	168	1605	13574	10974	207	6272	8853	10837	11187	12342	13477
12/06 - 12/12	168	1795	13046	10808	187	7236	9533	11018	11547	11845	12762
12/13 - 12/19	168	2012	15126	12012	207	4706	8408	10504	10451	11371	12971
12/20 - 12/26	168	1066	12665	10240	220	6033	8909	10451	11371	11608	12197
12/27 - 01/02	161	12432	10415	911	196	6113	9322	10242	11581	11804	12121
01/03 - 01/09	161	2772	12843	10567	196	6250	9392	10711	11513	11964	12197
01/10 - 01/16	161	1272	13462	10682	218	6157	9494	11271	12032	12607	12971
01/17 - 01/23	161	2745	15126	12012	207	7379	10489	11943	12650	13132	12266
01/24 - 01/30	161	2058	15516	12410	248	7223	9728	10451	11371	11813	14015
01/31 - 02/06	161	17015	14368	13097	191	11602	13616	14434	15016	15170	14558
02/07 - 02/13	161	1557	18676	14123	309	7288	11155	14133	15471	15950	15560
02/14 - 02/20	161	3429	19117	16000	250	10978	13941	15742	16974	17353	16777
02/21 - 02/27	161	3786	17262	13037	267	15825	17376	18203	18643	18865	17924

Table 24.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT SANTA MARIA, CA.  
 STATION NO. 232731 JULY, 1952 - MARCH, 1969

CLIMATIC WEEK	NUMBER OBS.	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN RADIAITION	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						90	80	70	60	50	(MEDIAN)
03/01 - 03/07	119	3593	20864	16885	302	11224	14696	16100	17432	18190	18963
03/08 - 03/14	119	2801	21199	17013	412	9529	13703	15702	17849	19184	19197
03/15 - 03/21	119	2300	22885	18101	470	10092	14317	17469	19609	20249	19550
03/22 - 03/28	119	4184	24847	18835	472	10509	13457	17316	19787	21039	20827
03/29 - 04/04	112	3974	25591	19652	520	11145	15067	17582	20259	21903	22100
04/05 - 04/11	112	4955	26089	21391	488	12174	17809	20312	22464	23278	23273
04/12 - 04/18	112	5080	27294	22431	493	13245	19151	22346	23881	24417	24419
04/19 - 04/25	112	4378	27876	21958	592	10245	15797	20411	24549	25145	25339
04/26 - 05/02	112	3774	29404	23662	544	12638	20324	23227	24561	25625	26247
05/03 - 05/09	112	5271	29617	23133	550	14063	17803	21421	23572	25582	26802
05/10 - 05/16	112	6067	30618	25413	445	19388	22460	24279	26020	26933	28483
05/17 - 05/23	112	4096	30368	24293	599	14777	20767	24121	25294	28195	29107
05/24 - 05/30	112	4567	31766	24310	679	11702	17212	23739	26213	28132	29402
05/31 - 06/06	112	7501	32804	25705	498	17320	21503	24016	26182	27526	28441
06/07 - 06/13	112	5319	31680	25992	539	18343	22403	24816	26788	27676	28202
06/14 - 06/20	112	4040	32242	26459	533	19664	23367	25500	27144	28585	29028
06/21 - 06/27	112	13463	31748	27827	328	23956	26307	27330	28004	28674	29259
06/28 - 07/04	112	14368	31319	27358	304	22690	25123	26739	27460	28189	28593
07/05 - 07/11	119	9572	30988	27365	263	24481	25260	26397	26922	27528	28037
07/12 - 07/18	119	12230	30722	26516	276	23523	24463	25170	26180	27842	29391
07/19 - 07/25	119	8706	31546	26301	255	23127	24675	25422	26111	26645	27047
07/26 - 08/01	119	10484	29487	25404	319	22088	23969	24833	25237	25903	26969
08/02 - 08/08	119	9497	28773	24662	302	21180	22703	24131	24791	25325	26073
08/09 - 08/15	119	14409	28709	24262	269	19811	22105	23233	24065	24727	25429
08/16 - 08/22	119	7301	28173	23742	327	18617	22220	23124	23941	24731	25833
08/23 - 08/29	119	11597	27275	23230	248	20195	21643	22234	23290	23937	25018
08/30 - 09/05	119	7161	26013	21842	278	18288	20207	21134	21821	22329	23442
09/06 - 09/12	119	7003	24523	20651	313	15660	18033	19894	20976	21596	22734
09/13 - 09/19	119	4072	23453	19483	354	12674	16262	18724	20185	21102	22768
09/20 - 09/26	119	4363	22420	18704	353	12633	16271	18426	20465	21314	21796
09/27 - 10/03	119	2196	21392	17075	352	10996	14869	16668	17382	18250	20488
10/04 - 10/10	119	5889	21637	16899	285	12185	15313	16590	17281	18053	18662
10/11 - 10/17	119	3228	18766	15533	324	9449	13213	15119	16504	17123	18329
10/18 - 10/24	119	4888	17899	14966	273	16166	17857	19075	20976	21596	21922
10/25 - 10/31	119	4341	16619	13803	234	9582	12643	13765	14164	14972	15253
11/01 - 11/07	119	1849	16277	12281	292	6417	10420	12170	12895	13362	14468
11/08 - 11/14	119	2563	14423	11100	266	6822	8855	9604	10690	12299	14751
11/15 - 11/21	119	1936	13280	10586	263	5728	8522	9552	11184	12902	15827
11/22 - 11/28	119	2709	12571	10571	218	6166	9157	10795	11293	12236	12845
11/29 - 12/05	119	1147	9416	721	4014	7057	8845	10520	11022	11111	11476
12/06 - 12/12	119	1840	11276	9573	206	5901	7699	9786	10387	11062	11712
12/13 - 12/19	119	2411	8836	4707	4975	6375	7942	9008	9769	10244	10879
12/20 - 12/26	119	11331	8867	245	3633	6969	9002	9631	10354	10497	10922
12/27 - 01/02	119	2116	12011	9160	200	5906	7192	8492	9525	10108	10538
01/03 - 01/09	119	1788	9484	223	4907	7598	9388	10095	10535	10838	11058
01/10 - 01/16	119	12795	9479	274	4289	6095	8693	10166	11254	11516	11980
01/17 - 01/23	119	1077	13255	9761	285	4105	7393	8556	9923	10754	11238
01/24 - 01/30	119	918	14119	9907	321	4306	6310	8496	9769	10949	11694
01/31 - 02/06	119	1554	11452	333	4612	8499	10811	12145	12902	13715	13943
02/07 - 02/13	119	1372	16440	11690	408	3810	6400	6992	12014	14125	14543
02/14 - 02/20	119	1366	17381	13119	394	5625	8973	11899	13873	15128	15336
02/21 - 02/27	119	18907	15118	345	8999	11674	14248	16056	16896	17203	18259

Table 25.

SOLAR RADIATION IN KILODJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT SEATTLE-TACOMA, WA.  
(STATION NO. 24233)  
DEC, 1951 - DEC, 1975

CLIMATIC WEEK	NUMBER OBS	MINIMUM RADIATION	MAXIMUM RADIATION	MEAN RADIATION	STD OF MEAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						90	80	70	60	50	40
03/01 - 03/07	168	1297	14512	8230	283	3229	4448	5588	6709	8320	8963
03/08 - 03/14	168	1728	15829	8848	305	3493	5006	6019	6961	8545	10574
03/15 - 03/21	168	2216	19113	10087	327	4346	5611	6962	8611	10319	11345
03/22 - 03/28	168	1912	19135	10911	360	4925	6033	7226	8701	10872	12329
04/04 - 04/10	168	1810	20828	11794	398	5282	6792	8205	8994	10697	14078
04/05 - 04/11	168	3557	21983	14065	411	6611	8585	10460	12093	12681	15479
04/12 - 04/18	168	4206	24282	14481	424	6832	8920	10456	12422	14666	16817
04/19 - 04/25	168	2784	24778	14956	435	7667	9432	11736	13092	14183	17785
04/26 - 05/02	168	4206	26317	17422	449	9004	11376	13879	16043	17703	19931
05/03 - 05/09	168	3297	27603	18613	498	8542	11449	15243	17314	19985	21584
05/10 - 05/16	168	3571	27970	19762	506	9329	13500	15701	19197	21248	22903
05/17 - 05/23	168	3156	30920	19543	506	9989	12750	15288	17763	19792	21510
05/24 - 05/30	168	3740	31161	20719	521	11318	13801	16839	18485	20410	24843
05/31 - 06/06	168	2762	29736	19928	596	8369	10531	14811	17258	21005	24158
06/07 - 06/13	168	3876	31389	19824	545	9221	13592	16281	17878	20093	21512
06/14 - 06/20	168	5732	31999	21163	544	10992	14043	16614	18093	21362	24071
06/21 - 06/27	168	6036	30930	20166	553	9658	12873	15362	18036	20373	23227
06/28 - 07/04	168	3777	31089	22162	533	12242	15389	18556	21021	23379	25797
07/05 - 07/11	168	6441	30205	21754	536	10693	14297	17826	20939	22739	26010
07/12 - 07/18	168	6173	30399	23278	480	13742	18002	20866	23207	25448	27145
07/19 - 07/25	168	4930	29110	22576	457	13009	15927	19865	21788	24071	26448
07/26 - 08/01	168	5848	28514	21862	448	12739	16661	19125	21198	23352	25567
08/02 - 08/08	168	4377	27019	20203	490	10176	13829	17026	19830	22318	24369
08/09 - 08/15	168	5312	26053	19834	427	10689	14405	17172	19255	21513	23089
08/16 - 08/22	168	2943	24683	17491	441	8697	11326	14102	16407	18587	20866
08/23 - 08/29	168	2867	23168	16050	435	7284	10241	12523	14783	17069	19090
08/30 - 09/05	168	4704	21918	15867	403	7477	10099	13466	15081	17706	19313
09/06 - 09/12	168	2545	20631	15687	372	6517	9823	12958	14359	16403	17629
09/13 - 09/19	168	2661	19561	12180	392	4594	6494	8094	10500	12933	14855
09/20 - 09/26	168	2271	17521	11587	337	4890	6841	8555	10711	12441	14067
09/27 - 10/03	168	1235	15718	10775	293	4939	6847	8389	10225	11693	13032
10/04 - 10/10	168	1550	14472	8684	285	3828	4843	5936	7041	8677	9954
10/11 - 10/17	168	930	13076	7843	251	2958	4304	5701	6688	8463	9498
10/18 - 10/24	168	1112	12149	5839	224	2008	3188	4038	4494	5286	6421
10/25 - 10/31	168	1114	10111	5790	192	2295	3296	3873	4752	5862	6688
11/01 - 11/07	168	1089	10176	5203	179	2044	3057	4329	4011	5044	5967
11/08 - 11/14	168	913	8103	3767	143	1501	2112	2462	2842	3218	3829
11/15 - 11/21	168	485	7255	3514	137	1210	1852	2331	2837	3125	3739
11/22 - 11/28	168	6421	6421	3195	125	1295	1588	2134	2498	2802	3425
11/29 - 12/05	168	535	5629	2519	100	1102	1376	1645	1752	2093	2503
12/06 - 12/12	168	290	5822	2609	106	958	1312	1480	1896	2223	2508
12/13 - 12/19	168	548	5136	2314	96	1000	1195	1400	1662	2024	2226
12/20 - 12/26	168	372	5303	2287	96	1064	1185	1385	1621	1879	2156
12/27 - 01/02	168	509	5813	2478	92	1171	1483	1738	2014	2177	2375
01/03 - 01/09	168	5498	2527	110	1071	1290	1545	1752	2093	2349	2895
01/10 - 01/16	168	278	6107	2487	97	1230	1408	1631	1945	2185	2419
01/17 - 01/23	168	672	6506	3124	120	1454	1559	1807	2141	2784	3177
01/24 - 01/30	168	372	7586	3688	146	1601	1855	2283	2775	3189	3754
01/31 - 02/06	168	914	8500	4477	161	1939	2343	3181	3543	4054	4504
02/07 - 02/13	168	341	9766	5111	185	2246	3042	3554	4024	4535	5338
02/14 - 02/20	168	1299	11166	5604	215	2607	2992	3613	4093	4854	5319
02/21 - 02/27	168	1299	12370	6771	238	2908	3896	4790	5182	6105	6738

Table 26.

SOLAR RADIATION IN KILOJOULES PER SQUARE METER PER DAY BY CLIMATIC WEEK AT WASHINGTON, DC.  
 (STATION NO. 93734) AUG, 1953 - DEC, 1975

CLIMATIC WEEK	NUMBER OBS	MINIMUM RADIALION	MAXIMUM RADIALION	MEAN RADIALION	STD OF MEAN	PROBABILITY IN PERCENT OF RECEIVING AT LEAST THE INDICATED AMOUNT					
						20	30	40	50	60	70
03/01 - 03/07	154	792	18317	10971	429	2373	4283	8614	10215	12241	13286
03/08 - 03/14	154	694	20584	11737	460	3161	5025	8271	10767	12720	14605
03/15 - 03/21	154	1116	21382	12623	497	2773	6251	9020	11028	13943	15523
03/22 - 03/28	154	1107	23121	15232	503	5200	8576	12330	14356	17372	19131
03/29 - 04/04	154	1191	23666	14815	543	4152	758	10543	13715	16138	18138
04/05 - 04/11	154	1472	25676	15748	598	4489	7299	10894	14260	17785	19690
04/12 - 04/18	154	1472	26288	17411	592	5322	9104	13401	16957	19976	21579
04/19 - 04/25	154	1764	27471	17228	562	521	10707	14213	16689	18312	20201
04/26 - 05/02	154	1639	27253	17111	656	4459	8863	10666	15282	19220	21667
05/03 - 05/09	154	2055	28621	19289	625	5117	10818	15363	19432	21891	23754
05/10 - 05/16	154	2685	28472	18694	572	7416	10922	14950	18055	20760	22146
05/17 - 05/23	154	2665	30632	19337	595	7855	12819	16458	19635	21267	24251
05/24 - 05/30	154	1979	29847	20390	622	9012	12253	1775	20089	22360	24386
05/31 - 06/06	154	2445	32070	21529	585	9523	15675	19650	22564	24046	25132
06/07 - 06/13	154	1422	34010	21708	539	10411	15829	19362	21844	23458	24966
06/14 - 06/20	154	2288	32239	20890	612	8543	13235	18231	20654	23439	24780
06/21 - 06/27	154	3151	33423	21734	521	11550	16227	19385	21362	24938	26281
06/28 - 07/04	154	3005	32885	22667	453	14462	17660	20637	22273	24133	25336
07/05 - 07/11	154	2910	29282	20469	519	10915	14415	17807	20037	21986	23610
07/12 - 07/18	154	2984	28982	20318	493	10975	14692	17803	20063	22187	24057
07/19 - 07/25	154	2941	27888	19694	473	10628	13704	16577	20053	21515	22750
07/26 - 08/01	154	4454	28393	19457	458	9919	13671	17187	19417	20888	21963
08/02 - 08/08	154	3208	28170	18330	499	9228	12496	15067	17334	19255	21376
08/09 - 08/15	161	1098	28176	18718	432	9913	13494	16667	20089	21999	24049
08/16 - 08/22	161	2400	26257	18166	422	10319	13720	15882	17371	19165	20503
08/23 - 08/29	161	3071	26659	18343	414	10542	13780	16674	18871	20326	21123
08/30 - 09/05	161	1308	24426	17351	416	9159	13009	15471	17247	18693	20110
09/06 - 09/12	161	1828	23886	18330	427	7428	13034	14530	16703	18216	19742
09/13 - 09/19	161	2496	24270	15123	412	6261	10318	12415	15020	16808	17939
09/20 - 09/26	161	1283	20221	13920	442	4444	7740	11006	13453	16400	17653
09/27 - 10/03	161	1209	19761	12347	446	2770	5580	8679	10303	14299	15727
10/04 - 10/10	161	654	18274	12347	391	3710	7333	10307	12321	14081	15216
10/11 - 10/17	161	1050	16960	12474	325	6103	8944	11531	12965	14146	14792
10/18 - 10/24	161	939	17983	10499	364	2999	5118	7738	10090	12277	13346
10/25 - 10/31	161	279	14251	9447	318	2077	4962	6869	9197	10767	12029
11/01 - 11/07	161	326	13444	8356	307	2077	3974	6002	8134	9577	10594
11/08 - 11/14	161	1032	12570	8044	257	2710	4564	6737	7690	8582	9660
11/15 - 11/21	161	673	14557	7040	279	1654	4241	6373	8141	9227	9943
11/22 - 11/28	161	1057	6332	234	1742	3102	4507	5588	6706	7845	8719
11/29 - 12/05	161	510	10564	6538	224	2077	3392	4791	6165	7507	8803
12/06 - 12/12	161	334	9588	5231	233	930	1636	2178	4279	5421	6531
12/13 - 12/19	161	9359	5371	217	1635	2351	3196	4259	5485	7052	8677
12/20 - 12/26	161	513	9407	5143	205	1235	2548	3371	4190	5210	6121
12/27 - 01/02	154	364	9850	5667	226	1335	2227	3912	4781	6309	73558
01/03 - 01/09	154	632	11058	5978	221	1724	2922	4101	5500	6370	7486
01/10 - 01/16	154	443	10392	6375	244	1683	3330	4252	5890	6965	8160
01/17 - 01/23	154	782	10995	6749	268	1735	2719	4151	5574	7601	8830
01/24 - 01/30	154	791	12173	6826	273	1676	2737	4669	6173	7955	9583
01/31 - 02/06	154	785	13227	7481	337	1485	2420	3905	6541	8625	10577
02/07 - 02/13	154	580	14044	8564	344	2286	3329	4507	6852	9252	11260
02/14 - 02/20	154	976	16600	9674	349	2587	4636	7263	9045	11007	11765
02/21 - 02/27	154	748	17120	10842	384	2868	5224	8425	10297	12577	13558

